

# CMRS Owner/Applicant Responsibility Statement

(to be filed in permanent paper file)

DNDEN00160A - Bella Vita (Proposed DISH Wireless Installation)

Site Plan name and number

"The present and future owners of this CMRS communication site will be responsible for correcting any interference problems encountered within the City communications system due to the operation of this CMRS site. A 24 hour telephone number must be provided to the City for the engineer responsible for maintaining this site."

DISH Wireless LLC (applicant)

Owner/Applicant

Robert Caristan

Engineer responsible for maintaining site

866-624-6674

24 hour telephone number

Before



Dish Wireless Site Address: 1470 S Havana St. Aurora, CO 80012  
Dish Wireless Site Number: DNDEN00160A





After



Dish Wireless Site Address: 1470 S Havana St. Aurora, CO 80012  
Dish Wireless Site Number: DNDEN00160A





# Before



**Dish Wireless Site Address: 1470 S Havana St. Aurora, CO 80012**  
**Dish Wireless Site Number: DNDEN00160A**





After



Dish Wireless Site Address: 1470 S Havana St. Aurora, CO 80012  
Dish Wireless Site Number: DNDEN00160A





# Before



**Dish Wireless Site Address: 1470 S Havana St. Aurora, CO 80012**  
**Dish Wireless Site Number: DNDEN00160A**





After



Dish Wireless Site Address: 1470 S Havana St. Aurora, CO 80012  
Dish Wireless Site Number: DNDEN00160A





**Written Response to the Site Selection and Design Criteria of  
Section 146-3.3.5.JJ of the Unified Development Ordinance**

To: Planning & Development Services Department  
City of Aurora

From: Kenneth Trujillo

Subject: DISH Wireless - Proposed Installation of Antennas & Equipment on Rooftop of Existing Bldg

Date: 09/22/2021

Location: 1470 S. Havana St, Aurora, CO 80012 (Rooftop of Existing Building)

Project Valuation: \$40,000.00

**Written Response:**

DISH Wireless is installing new telecommunications antennas on the existing building located at 1470 S. Havana St, Aurora, CO 80012. These antennas will be attached to extended existing screen walls on the roof. In order to provide wireless service to the surrounding area, DISH Wireless will be completing the following installations: (3) antennas, (6) RRUs, (3) surge suppression devices, (6) cables and (1) cabinet.

The proposed installation will comply with the Site Selection and Design Criteria of Section 146-3.3.5.JJ of the Unified Development Ordinance, as detailed below:

Site Selection Criteria:

- a) **Potential for Screening:** These antennas will be flush mounted to the existing penthouse on the roof and painted to match the building façade.
- b) **Compatibility with Adjacent Land Uses:** The installation will be compatible with the adjacent land uses. It will be on the roof of an existing building. The subject property is zoned MU-OI. The surrounding properties are zoned as MU-OI and MU-C.
- c) **Opportunities to Mitigate Visual Impacts:** The antennas be flush mounted to the existing penthouse on the roof and painted to match the building façade in order to minimize the visual impact of the building. The antennas and radio equipment will be mounted and painted to match the façade in order to blend in with the visual appearance of the building and minimize street level views.
- d) **Availability of Suitable Existing Structures for Antenna Mounting:** The subject property is a suitable existing structure for mounting antennas.
- e) **Search Area Description:** The search area consists of properties within 0.5 miles of the intersection of E Florida Ave and S Havana St. The subject property is suitable because it has an existing penthouse to accommodate mounted antennas.

Design Criteria:

- a) **Compatible with Surrounding Buildings and Existing or Planned Uses in the Area:** The subject property is zoned MU-OI. The installation will be compatible with the existing buildings and uses in the area.
- b) **Preserve or Enhance the Existing Character of the Topography and Vegetation:** The proposed installation will be on the roof of a building and will not disturb the existing topography and vegetation.



- c) **Roof and Building-Mounted Antennae should be Screened and/or Colored to Match Building:** The antennas will be façade mounted to the existing penthouse on the existing rooftop. The antennas will be painted the same color as the existing penthouse and building.
- d) **Screening Techniques Used:** The installation will utilize the existing penthouse and the equipment will be stored within the existing penthouse and will not be visible by street level.
- e) **New Freestanding Telecom Facility should be Designed for Two Telecom Providers:** N/A; the proposed installation is not a new freestanding telecom facility.
- f) **Not Permitted on Single-Family Residential:** N/A; the subject property is not zoned residential.
- g) **Antennas on Roof shall not Exceed 15' Above Height of Building:** The proposed antennas will be façade mounted on the existing penthouse and the extended screen walls will not be extended 15'.
- h) **Must Meet Min. Setbacks:** N/A; the proposed installation is on the roof of an existing building and does not violate any setbacks.

Thank you for your review and please contact me with any questions or concerns.

Respectfully,

*Kenneth Trujillo*

Site Acquisitions

6335 Downing St. Denver CO 80216

Cell: 719-205-9370 Email: [ktrujillo@wycofs.com](mailto:ktrujillo@wycofs.com)



# T-1





9601 S. MERIDIAN BLVD.  
ENGLEWOOD, CO 80112



6335 DOWNING ST  
DENVER, CO 80216

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DRAWN BY: CHECKED BY: APPROVED BY:

SA ML PR

RFDS REV #: 03/22/2021

ZONING  
DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	03/30/2021	PRELIM ZONING

A&E PROJECT NUMBER  
DNDEN00160A

DISH WIRELESS, LLC.  
PROJECT INFORMATION

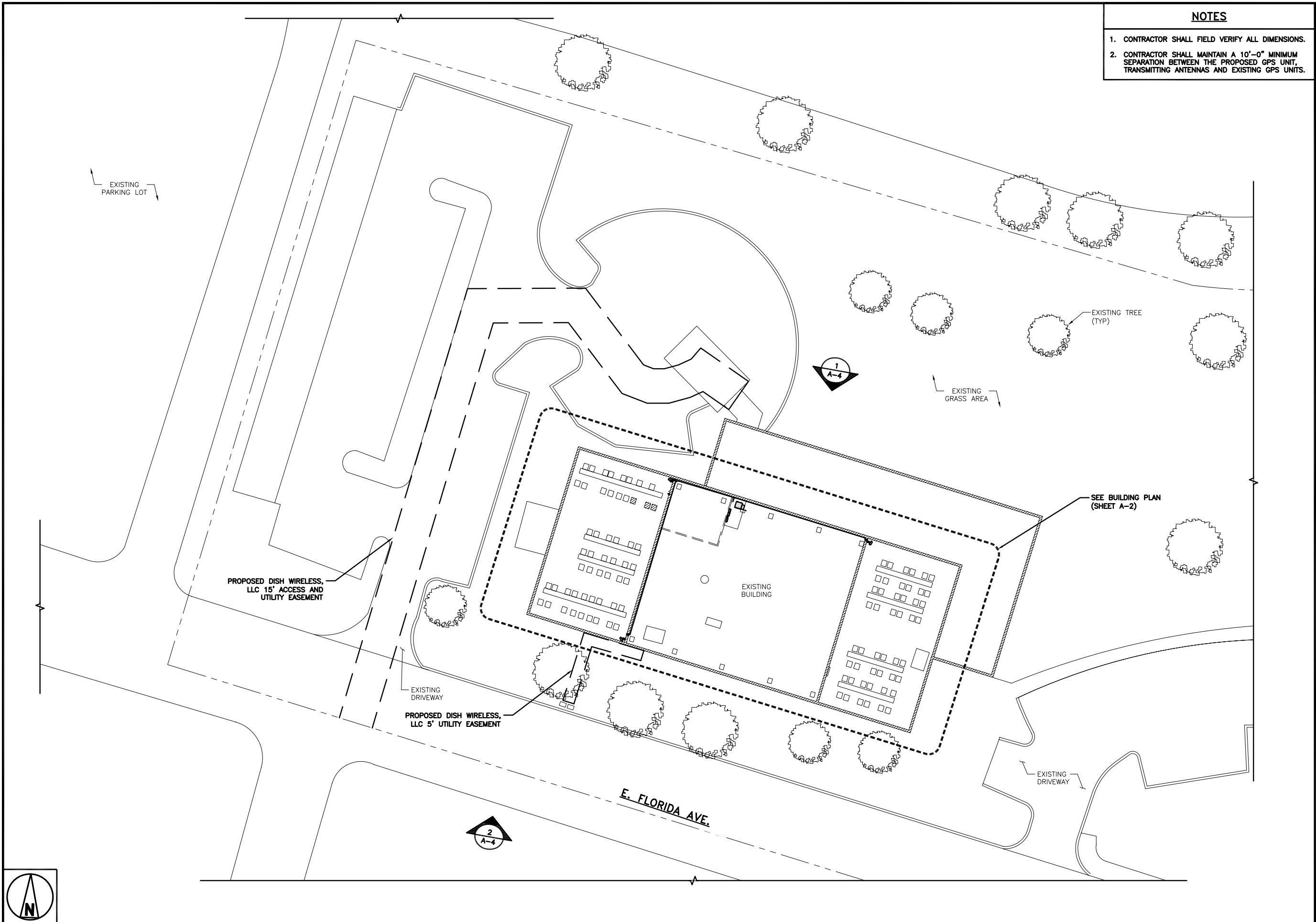
DNDEN00389A  
BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

SHEET TITLE  
PARCEL  
MAP

SHEET NUMBER

A-1.1





NOTES

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



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DNDEN00160A

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PROJECT INFORMATION

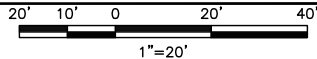
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BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

SHEET TITLE  
OVERALL  
SITE PLAN

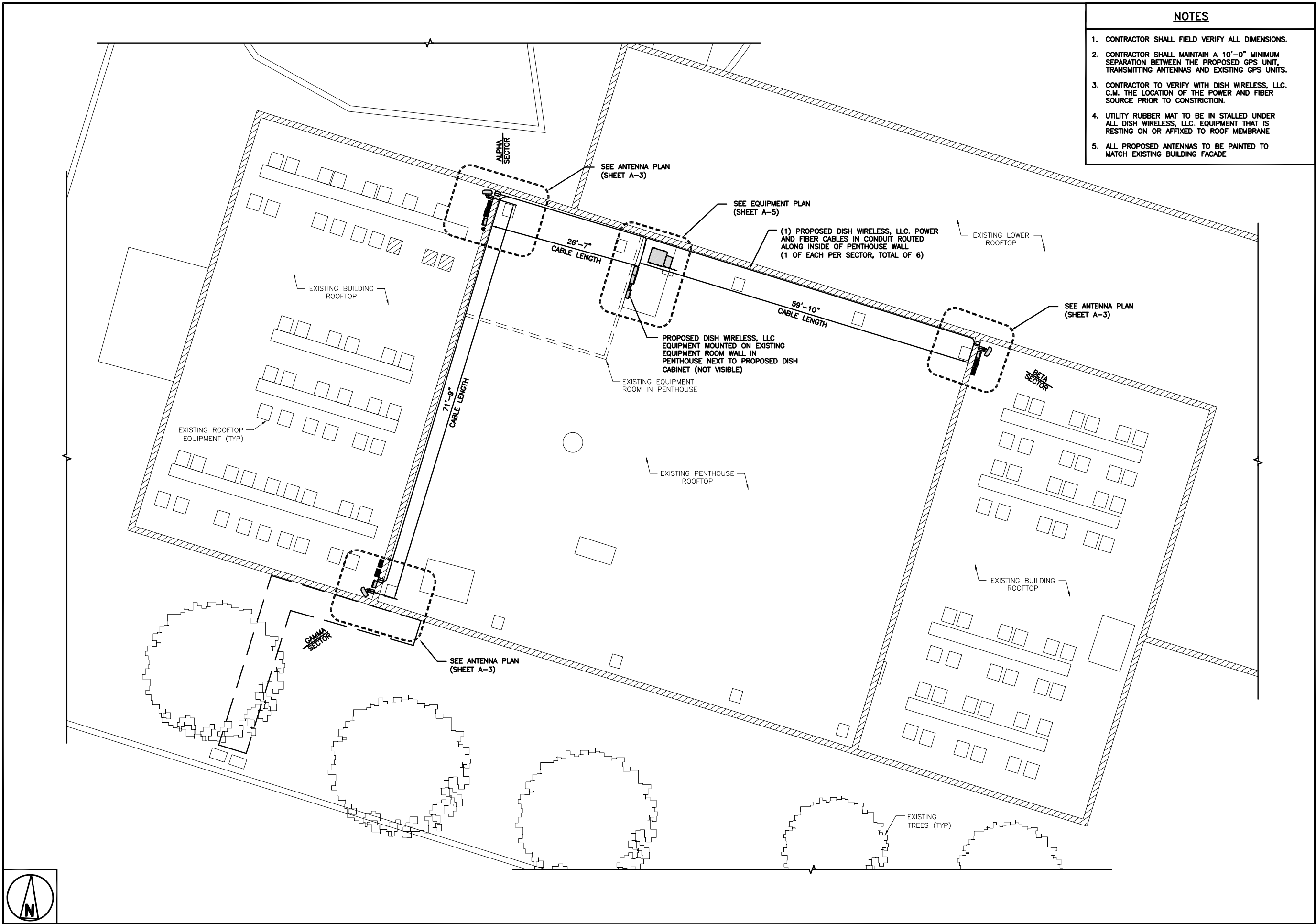
SHEET NUMBER

A-1.2

OVERALL SITE PLAN







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- 2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
- 3. CONTRACTOR TO VERIFY WITH DISH WIRELESS, LLC. C.M. THE LOCATION OF THE POWER AND FIBER SOURCE PRIOR TO CONSTRUCTION.
- 4. UTILITY RUBBER MAT TO BE IN STALLED UNDER ALL DISH WIRELESS, LLC. EQUIPMENT THAT IS RESTING ON OR AFFIXED TO ROOF MEMBRANE
- 5. ALL PROPOSED ANTENNAS TO BE PAINTED TO MATCH EXISTING BUILDING FACADE



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DENVER, CO 80216

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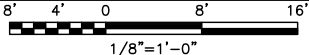
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DNDEN00160A

DISH WIRELESS, LLC.  
PROJECT INFORMATION  
DNDEN00389A  
BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

SHEET TITLE  
ENLARGED BUILDING  
PLAN

SHEET NUMBER  
A-2

ENLARGED BUILDING PLAN



NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.
4. ALL PROPOSED ANTENNAS AND RADIOS TO BE PAINTED TO MATCH EXISTING BUILDING FACADE.

PROPOSED DISH WIRELESS, LLC.  
ANTENNA PAINTED TO MATCH BUILDING  
FACADE (TYP PER SECTOR, TOTAL 3)

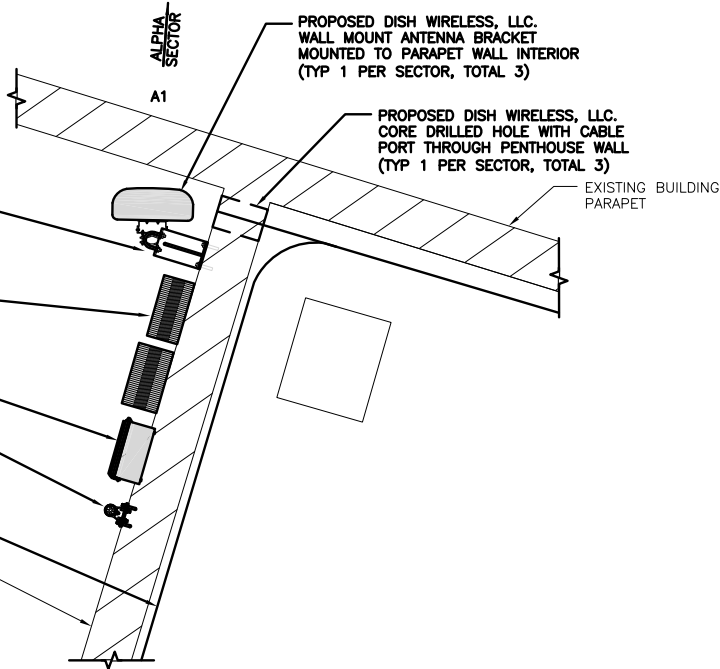
PROPOSED DISH WIRELESS, LLC. 5G  
RRH MOUNTED TO PENTHOUSE WALL  
48" ABOVE ROOF  
(TYP 2 PER SECTOR, TOTAL 6)

PROPOSED DISH WIRELESS, LLC. OVP  
DEVICE MOUNTED PENTHOUSE WALL  
48" ABOVE ROOF  
(TYP PER SECTOR, TOTAL 3)

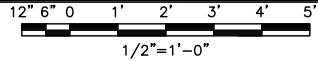
PROPOSED DISH WIRELESS, LLC. GPS  
ANTENNA MOUNTED TO WALL

(2) PROPOSED DISH WIRELESS, LLC.  
CABLES ROUTED IN CONDUIT ALONG  
PARAPET WALL WITH GROMMET HANGERS  
(TYP PER SECTOR)

EXISTING  
PENTHOUSE

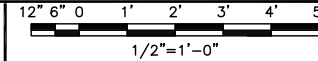


ANTENNA PLAN – ALPHA SECTOR

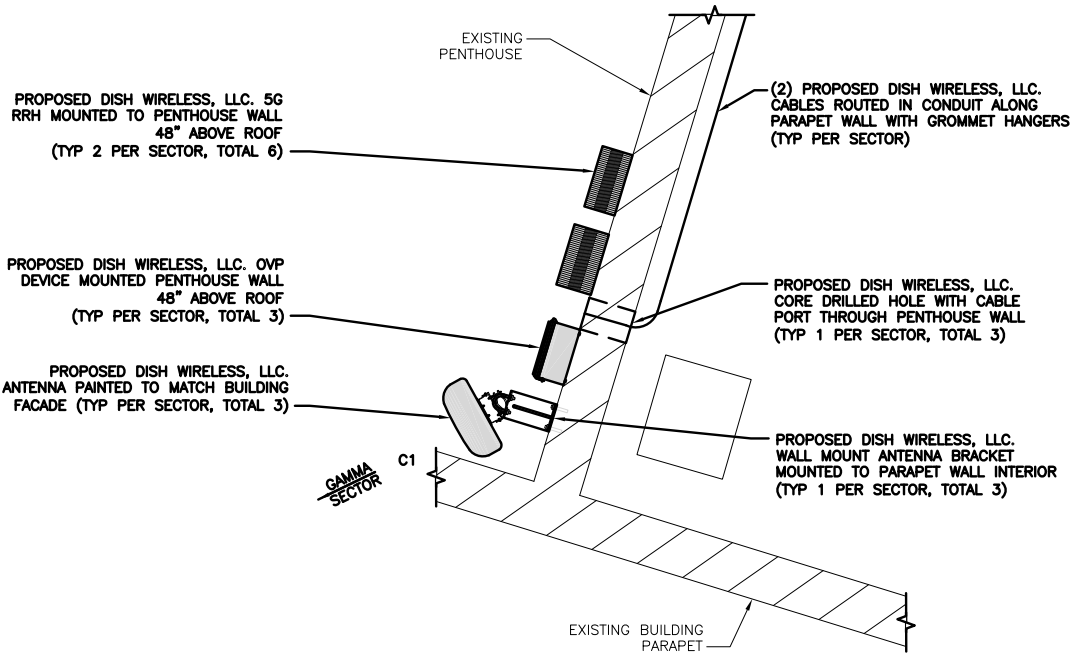


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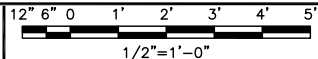
ANTENNA PLAN – BETA SECTOR



2



ANTENNA PLAN – GAMMA SECTOR



3

SECTOR	POSITION	ANTENNA						TRANSMISSION CABLE	
		EXISTING OR PROPOSED	MANUFACTURER – MODEL NUMBER	TECHNOLOGY	SIZE (HxW)	AZMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	
ALPHA	A1	PROPOSED	JMA – MX08FRO665–21	5G	72" x 20"	0°	203'–2"	(2) CABLES (30' LONG)	
BETA	B1	PROPOSED	JMA – MX08FRO665–21	5G	72" x 20"	120°	203'–2"	(2) CABLES (70' LONG)	
GAMMA	C1	PROPOSED	JMA – MX08FRO665–21	5G	72" x 20"	240°	203'–2"	(2) CABLES (110' LONG)	

SECTOR	POSITION	RRH		NOTES
		MANUFACTURER – MODEL NUMBER	TECHNOLOGY	
ALPHA	A1	FUJITSU – TA08025–B605	5G	1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS. 2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.
	A1	FUJITSU – TA08025–B604	5G	
BETA	B1	FUJITSU – TA08025–B605	5G	
	B1	FUJITSU – TA08025–B604	5G	
GAMMA	C1	FUJITSU – TA08025–B605	5G	
	C1	FUJITSU – TA08025–B604	5G	

ANTENNA SCHEDULE

NO SCALE

4

dish  
wireless.

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ENGLEWOOD, CO 80112

WYCO  
FIELD SERVICES  
Where quality still counts.

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DENVER, CO 80216

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DOCUMENTS

SUBMITTALS		
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A&E PROJECT NUMBER  
DNDEN00160A

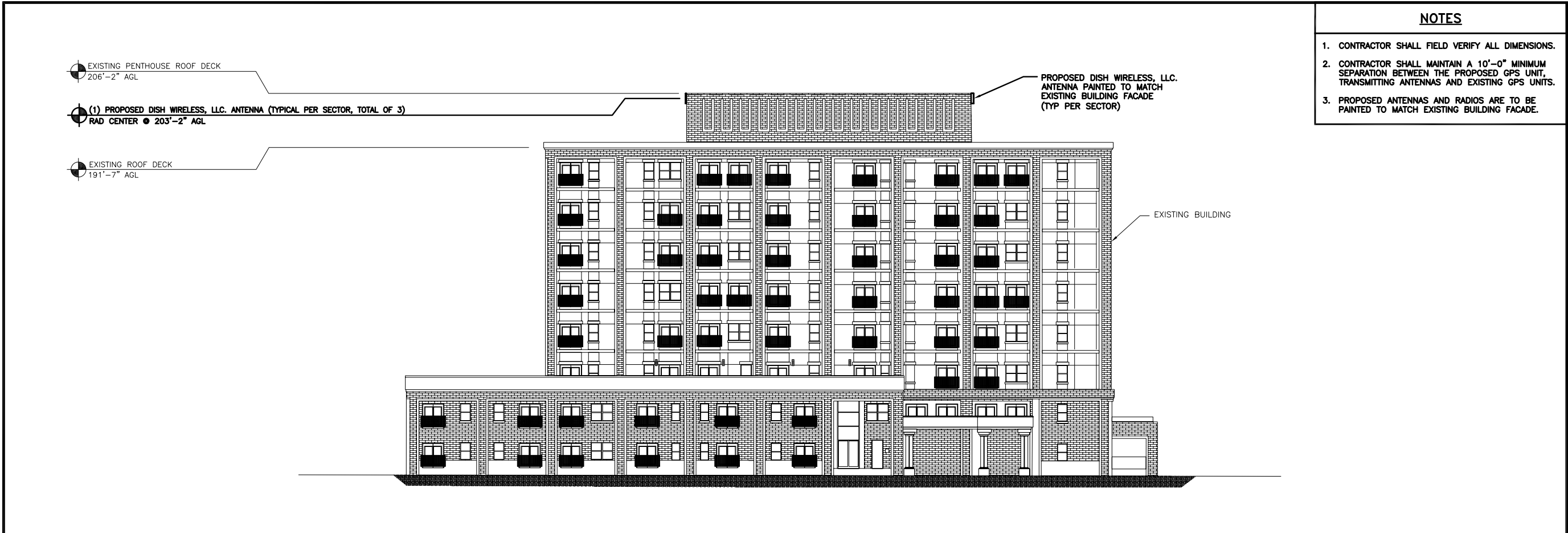
DISH WIRELESS, LLC.  
PROJECT INFORMATION  
DNDEN00389A  
BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

SHEET TITLE  
ANTENNA PLANS  
AND SCHEDULE

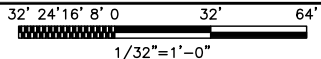
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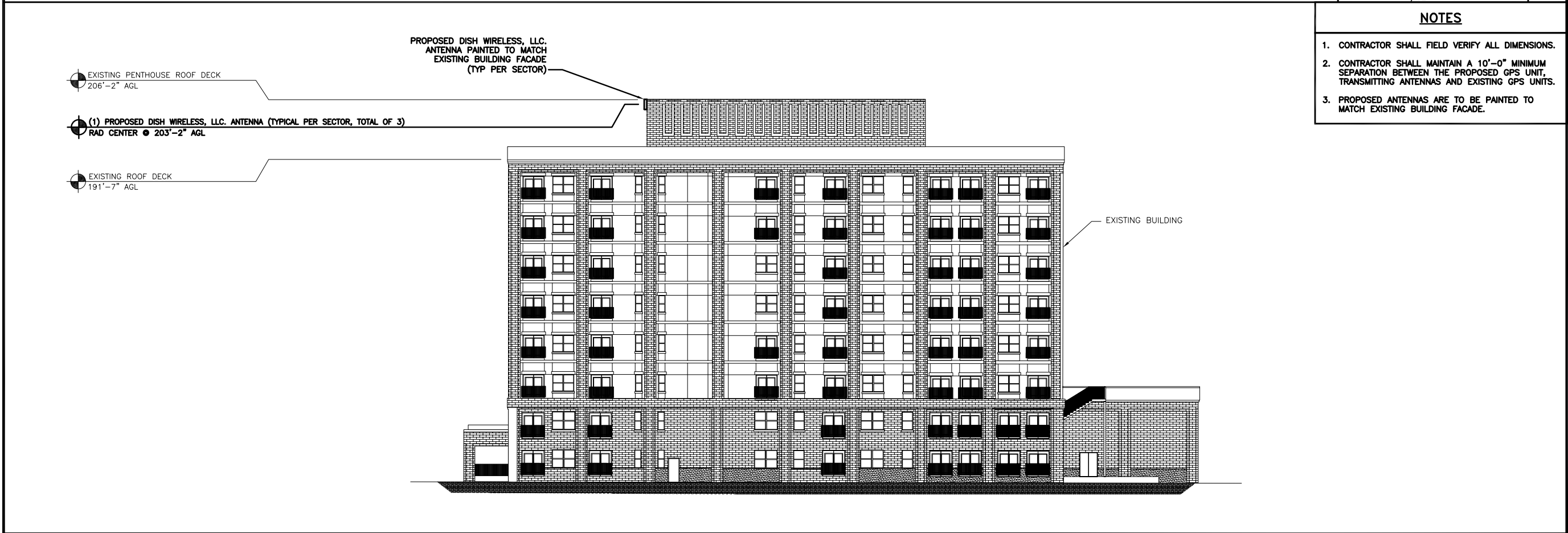
BUILDING NORTH ELEVATION



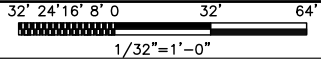
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BUILDING SOUTH ELEVATION



2

NOTES

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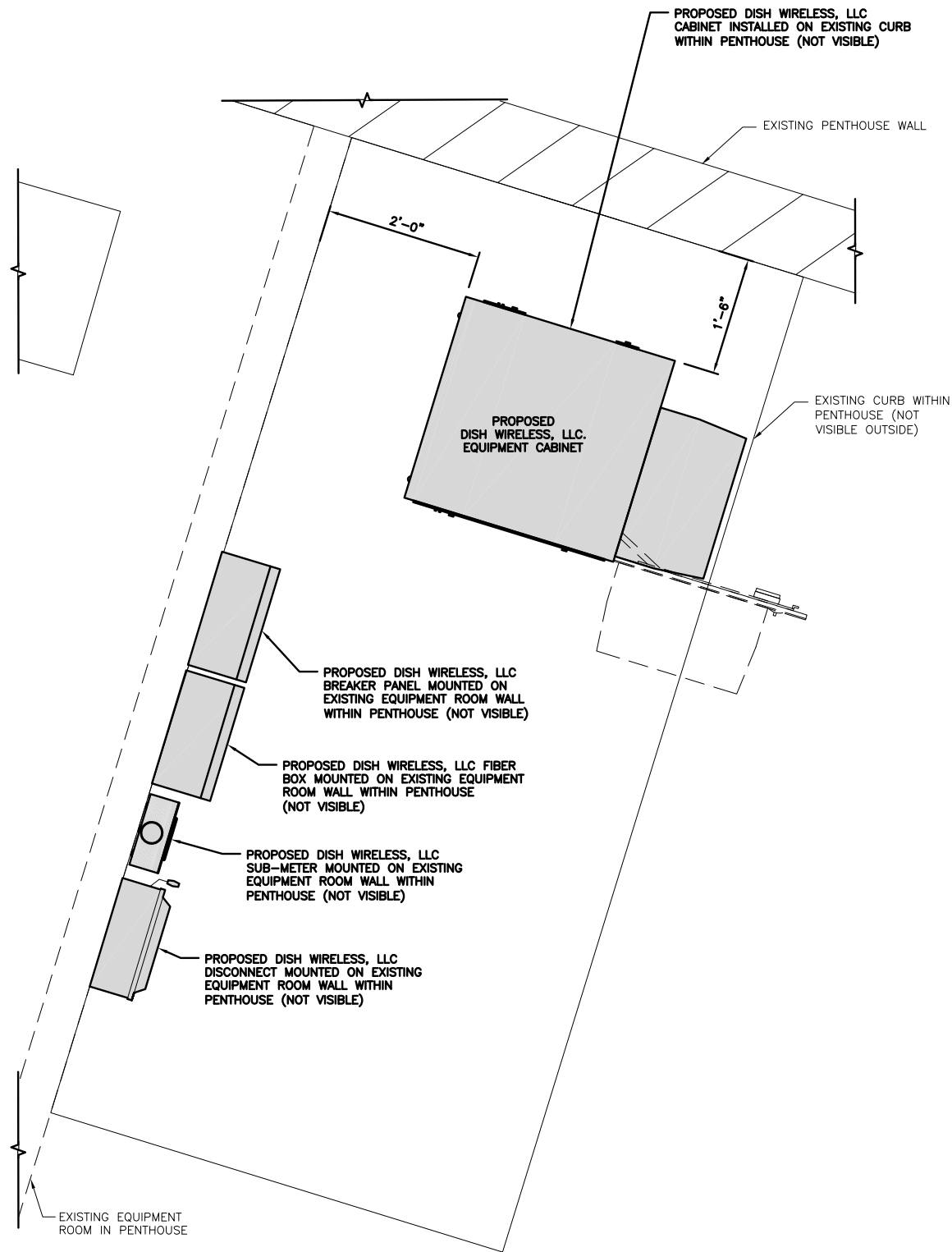
A&E PROJECT NUMBER  
DNDEN00160A

DISH WIRELESS, LLC.  
PROJECT INFORMATION  
DNDEN00389A  
BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

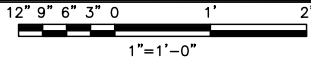
SHEET TITLE  
NORTH AND SOUTH  
ELEVATIONS

SHEET NUMBER

A-4



EQUIPMENT PLAN



1

NOT USED

NO SCALE

2



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ENGLEWOOD, CO 80112



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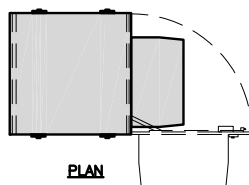
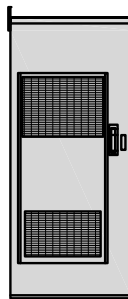
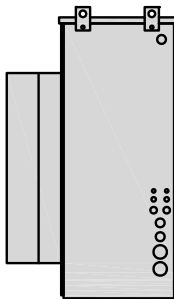
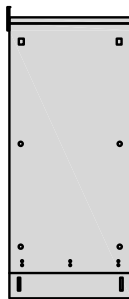
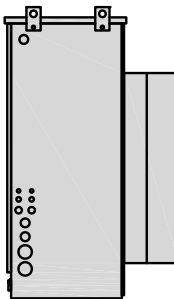
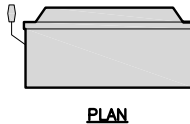
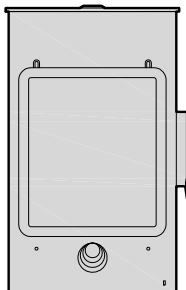
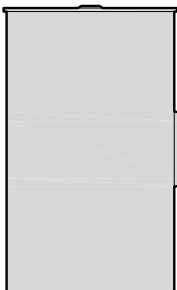

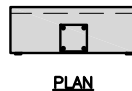
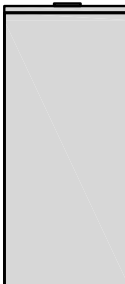

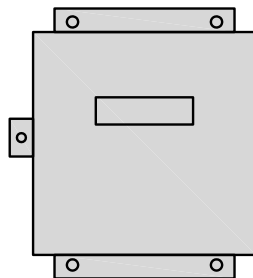

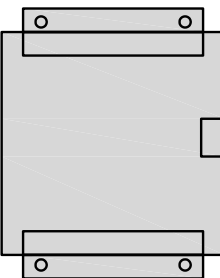

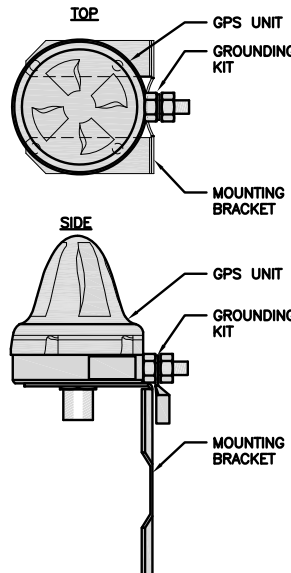
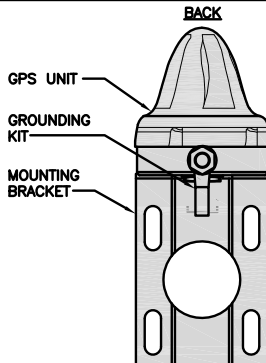
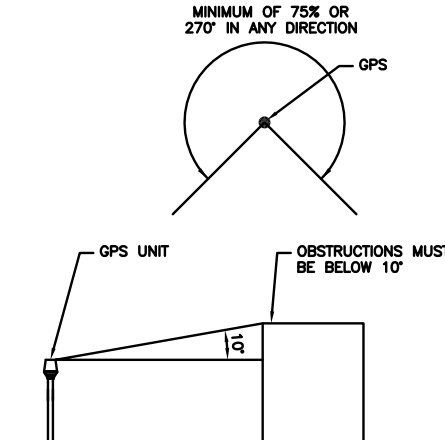
A&E PROJECT NUMBER  
DNDEN00160A

DISH WIRELESS, LLC.  
PROJECT INFORMATION  
DNDEN00389A  
BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

SHEET TITLE  
EQUIPMENT  
PLAN

SHEET NUMBER  
A-5



<table><tr><td colspan="2">CHARLES INDUSTRY PM639155N4 AC CABINET</td></tr><tr><td>DIMENSIONS (HxWxD):</td><td>74"x32"x32"</td></tr><tr><td>POWER PLANT:</td><td>48VDC ABB</td></tr><tr><td>HVAC</td><td>6000W DC</td></tr><tr><td>TOTAL WEIGHT (EMPTY)</td><td>394 LBS</td></tr></table> <div></div> <div></div> <div>CABINET DETAIL</div> <div>NO SCALE</div> <div>1</div>			CHARLES INDUSTRY PM639155N4 AC CABINET		DIMENSIONS (HxWxD):	74"x32"x32"	POWER PLANT:	48VDC ABB	HVAC	6000W DC	TOTAL WEIGHT (EMPTY)	394 LBS	<table><tr><td colspan="2">SQUARE D SAFETY SWITCH D324NRB</td></tr><tr><td>ENCLOSURE DIM (HxWxD)</td><td>29.25"x17.25"x8.25"</td></tr><tr><td>TOTAL WEIGHT (EMPTY)</td><td>45.33 LBS</td></tr><tr><td>MAX VOLTAGE/AMPS/WATT</td><td>240V/200A/48000W</td></tr><tr><td>ENCLOSURE RATING</td><td>OUTDOOR NEMA 3R</td></tr></table> <div></div> <div></div> <div>SAFETY SWITCH</div> <div>NO SCALE</div> <div>2</div>			SQUARE D SAFETY SWITCH D324NRB		ENCLOSURE DIM (HxWxD)	29.25"x17.25"x8.25"	TOTAL WEIGHT (EMPTY)	45.33 LBS	MAX VOLTAGE/AMPS/WATT	240V/200A/48000W	ENCLOSURE RATING	OUTDOOR NEMA 3R	<table><tr><td colspan="2">GE BREAKER PANEL TLM1220RCUP</td></tr><tr><td>ENCLOSURE DIM (HxWxD)</td><td>29"x13"x5"</td></tr><tr><td>TOTAL WEIGHT (EMPTY)</td><td>26 LBS</td></tr><tr><td>MAX VOLTAGE/MAX AMPS</td><td>240V/200A</td></tr><tr><td>ENCLOSURE RATING</td><td>OUTDOOR NEMA 3R</td></tr></table> <div></div> <div>BREAKER PANEL DETAIL</div> <div>NO SCALE</div> <div>3</div>			GE BREAKER PANEL TLM1220RCUP		ENCLOSURE DIM (HxWxD)	29"x13"x5"	TOTAL WEIGHT (EMPTY)	26 LBS	MAX VOLTAGE/MAX AMPS	240V/200A	ENCLOSURE RATING	OUTDOOR NEMA 3R
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MAX VOLTAGE/MAX AMPS	240V/200A																																					
ENCLOSURE RATING	OUTDOOR NEMA 3R																																					
<table><tr><td colspan="2">LEVITON 1N240-21 SUBMETER</td></tr><tr><td>WATTAGE</td><td>3</td></tr><tr><td>AMPS</td><td>200</td></tr><tr><td>VOLTS AC</td><td>120, 208, 240</td></tr><tr><td>PHASE</td><td>1</td></tr></table> <div></div> <div>E-MON D-MON DETAIL</div> <div>NO SCALE</div> <div>4</div>			LEVITON 1N240-21 SUBMETER		WATTAGE	3	AMPS	200	VOLTS AC	120, 208, 240	PHASE	1	<table><tr><td colspan="2">ROSENBERGER GPSGLONASS-36-N-S</td></tr><tr><td>DIMENSION (DIA x H)</td><td>69mm x 98.5mm</td></tr><tr><td>WEIGHT (WITH ACCESSORIES)</td><td>515.74g</td></tr><tr><td>CONNECTOR</td><td>N-FEMALE</td></tr><tr><td>FREQUENCY RANGE</td><td>1559 MHz ~ 1610.5MHz</td></tr></table> <div></div> <div>GPS ANTENNA DETAIL</div> <div>NO SCALE</div> <div>5</div>			ROSENBERGER GPSGLONASS-36-N-S		DIMENSION (DIA x H)	69mm x 98.5mm	WEIGHT (WITH ACCESSORIES)	515.74g	CONNECTOR	N-FEMALE	FREQUENCY RANGE	1559 MHz ~ 1610.5MHz	<div></div> <div>GPS MINIMUM SKY VIEW REQUIREMENTS</div> <div>NO SCALE</div> <div>6</div>												
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<div>NOT USED</div> <div>NO SCALE</div> <div>7</div>			<div>NOT USED</div> <div>NO SCALE</div> <div>8</div>			<div>NOT USED</div> <div>NO SCALE</div> <div>9</div>																																

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TO ALTER THIS DOCUMENT.

DRAWN BY:

CHECKED BY:

APPROVED BY:

SA

ML

PR

RFDS REV #: 03/22/2021

ZONING  
DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	03/30/2021	PRELIM ZONING

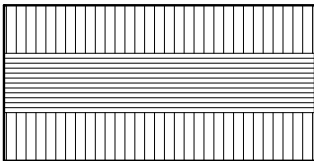
A&E PROJECT NUMBER  
DNDEN00160A

DISH WIRELESS, LLC.  
PROJECT INFORMATION  
DNDEN00389A  
BELLA VITA  
1470 S. HAVANA ST.  
AURORA, CO 80012

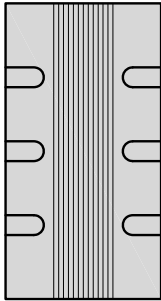
SHEET TITLE  
EQUIPMENT DETAILS

SHEET NUMBER  
A-6

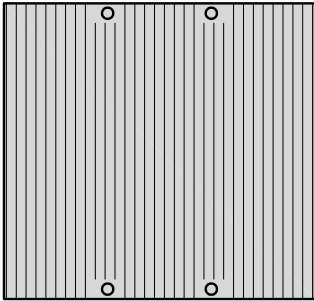
FUJITSU TA08025-B604 RRH	
DIMENSIONS (HxWxD) (KG/IN)	380x400x200/14.9"x15.7"x7.8"
WEIGHT(KG,LB)/ VOLUME	29kg,63.9lb/ 30L
POWER SUPPLY	DC-58~-36V



PLAN

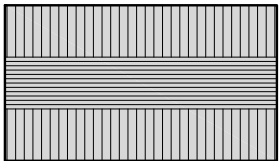


SIDE

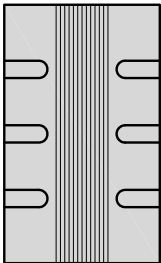


FRONT

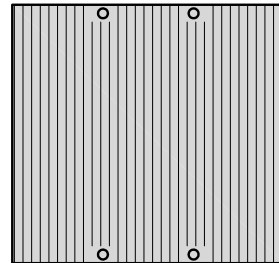
FUJITSU TA08025-B605 RRH	
DIMENSIONS (HxWxD) (KG/IN)	380x400x230/14.9"x15.7"x9.0"
WEIGHT(KG,LB)/ VOLUME	34kg,74.9lb/ 35L
POWER SUPPLY	DC-58~-36V



PLAN

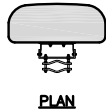


SIDE

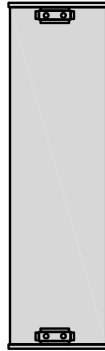


FRONT

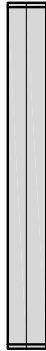
JMA WIRELESS MX08FRO665-21 ANTENNA	
DIMENSIONS (HxWxD)	72.0"x20.0"x8.0"
TOTAL WEIGHT	54 LB
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE



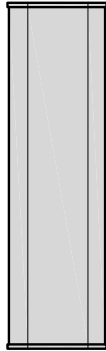
PLAN



BACK



SIDE



FRONT

REMOTE RADIO HEAD DETAIL

NO SCALE

1

REMOTE RADIO HEAD DETAIL

NO SCALE

2

ANTENNA DETAIL

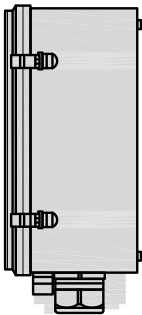
NO SCALE

3

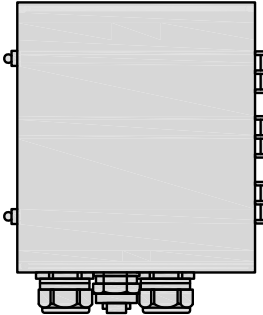
RAYCAP RDIDC-3045-PF-48 SURGE PROTECTION DEVICE (OVP)	
DIMENSIONS (HxWxD)	16" x 14" x 8"
WEIGHT	21.85 LBS



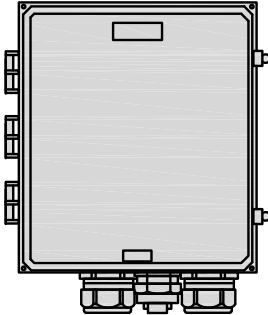
PLAN



SIDE



BACK



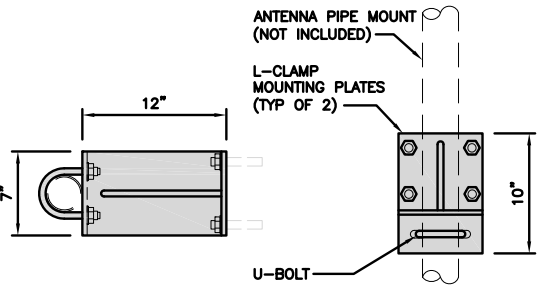
FRONT

SURGE PROTECTION DEVICE DETAIL (OVP)

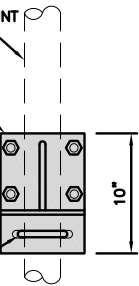
NO SCALE

4

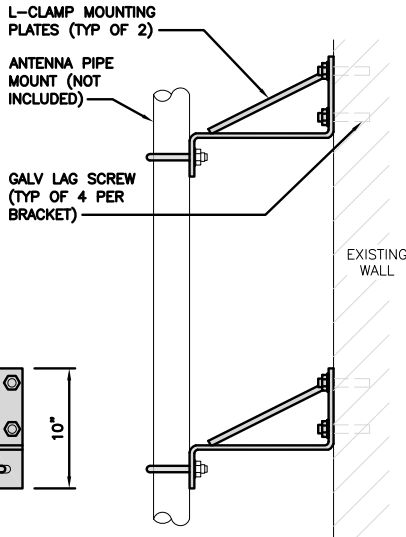
COMMSCOPE MT222L ADJUSTABLE WALL MOUNTS	
STANDOFF	12"
DIMENSIONS (HxWxD)	10"x 7"x 12"
WEIGHT WITH BRACKETS	55.75 LBS



PLAN



FRONT



SIDE

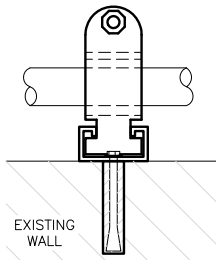
ADJUSTABLE WALL MOUNT DETAIL

NO SCALE

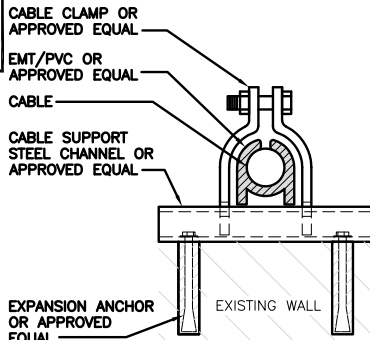
5

CABLE WALL MOUNT SUPPORT	
UNISTRUT TYPE	GRAINGER P1000T
UNISTRUT DIMENSIONS (HxWxL)	1 5/8"x 1 5/8"x 12"
WEIGHT/ VOLUME	1.85 LB PER FOOT
ULTIMATE LOAD CAPACITY	718.5 LB

NOTES:  
1. ALL HARDWARE AND PARTS SHALL BE HOT DIPPED GALVANIZED WITH LOCK WASHERS AND HEAVY HEX NUTS.  
2. VERTICAL CABLE MOUNT: 4'-0" MAX. UNISTRUT SEPARATION  
3. HORIZONTAL CABLE MOUNT: 3'-0" MAX UNISTRUT SEPARATION



PLAN

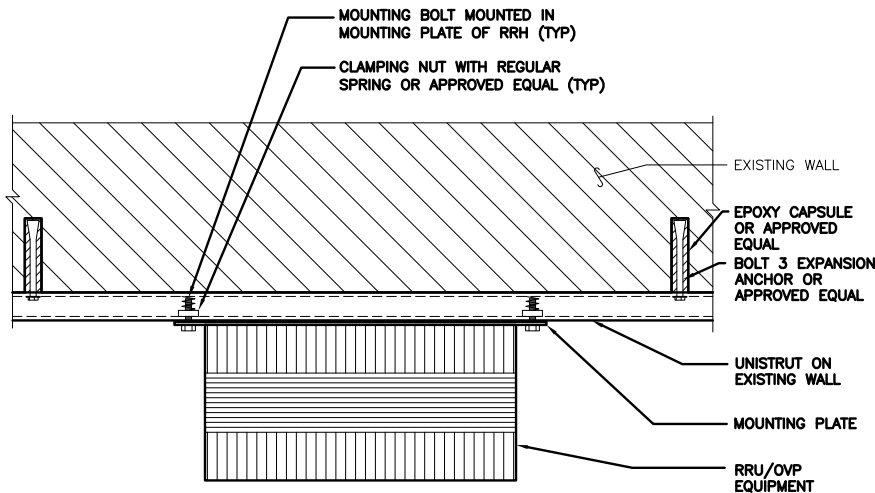


SIDE

CABLE WALL MOUNT SUPPORT DETAIL

NO SCALE

6



RRH/OVP UNISTRUT WALL MOUNT DETAIL

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

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SA ML PR

RFDS REV #: 03/22/2021

## ZONING DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
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A&E PROJECT NUMBER  
DNDEN00160A

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PROJECT INFORMATION  
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SHEET TITLE  
EQUIPMENT DETAILS

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**A-7**