

**dish wireless**



● PICTURE TAKEN FROM

**SITE NAME:**  
SESEA00330A

**ADDRESS:**  
721 1ST AVENUE  
SEATTLE, WA 98104



dish wireless



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SEATTLE, WA 98104



## SESEA00330B – 721 1<sup>st</sup> Ave – 1<sup>st</sup> & Columbia Parking Garage

Looking SE at Elevator Penthouse



Looking NW at Elevator Penthouse

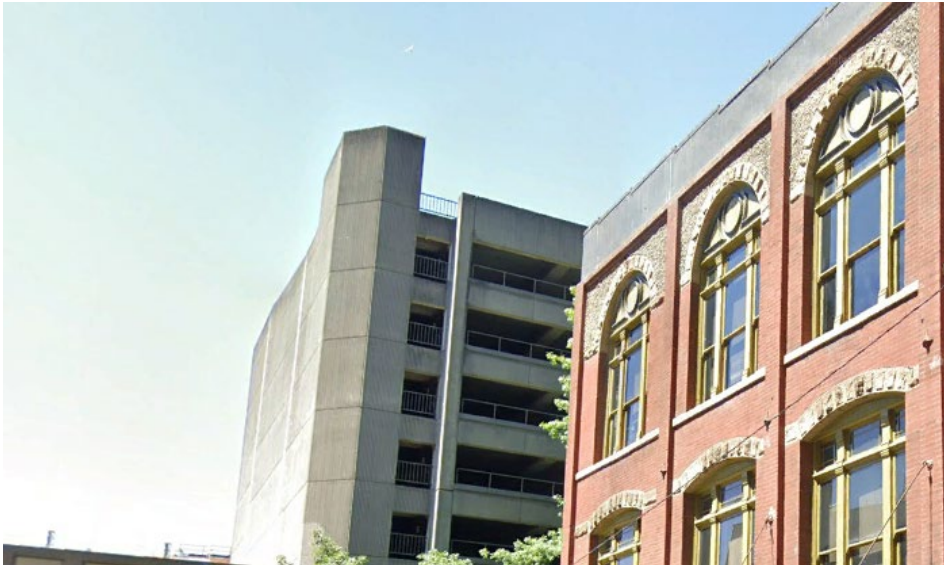




Looking SE at South Stairwell Penthouse



Looking W at South Stairwell Penthouse





Photos to show building's exterior texture



Very Close up to see pattern/shape





## SESEA00330A Color and Texture Samples

Pere the DON requirements, the applicant has obtained samples of the stealth screening materials specific to the various textures that are present on the associated project.

### CENTRAL ELEVATOR SCREENING

The following images are of the existing cinderblock elevator penthouse.



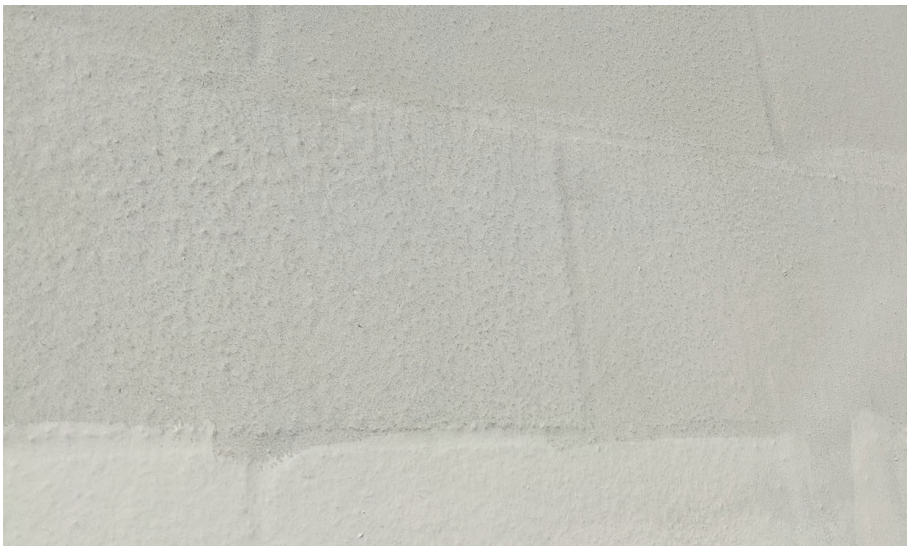
Per the photos above, and easily seen in the close-up image on the following page, the penthouse has various shades and sheens of off-white.





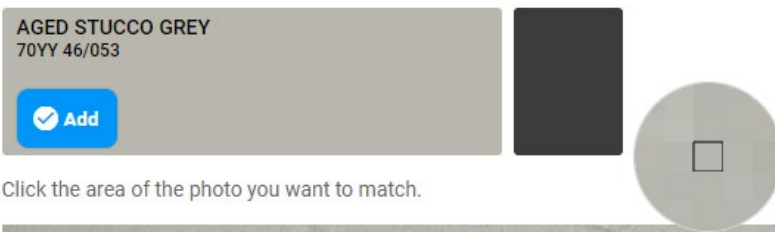
Above: Note various "whites" used to paint the penthouse.

Left: Very close up of paint and texture





Glidden's color matching selected "Aged Stucco Grey" as the most accurate match for a majority of the penthouse. Image below is a screen shot of the match results.





The three images below are of a sample of the stealthing material that will be used for the cinderblock stealthing above the elevator penthouse. It was painted the same color white as the lower portion of the penthouse, with custom scuffing/dirty spots to give it a worn appearance similar to the rest of the penthouse.







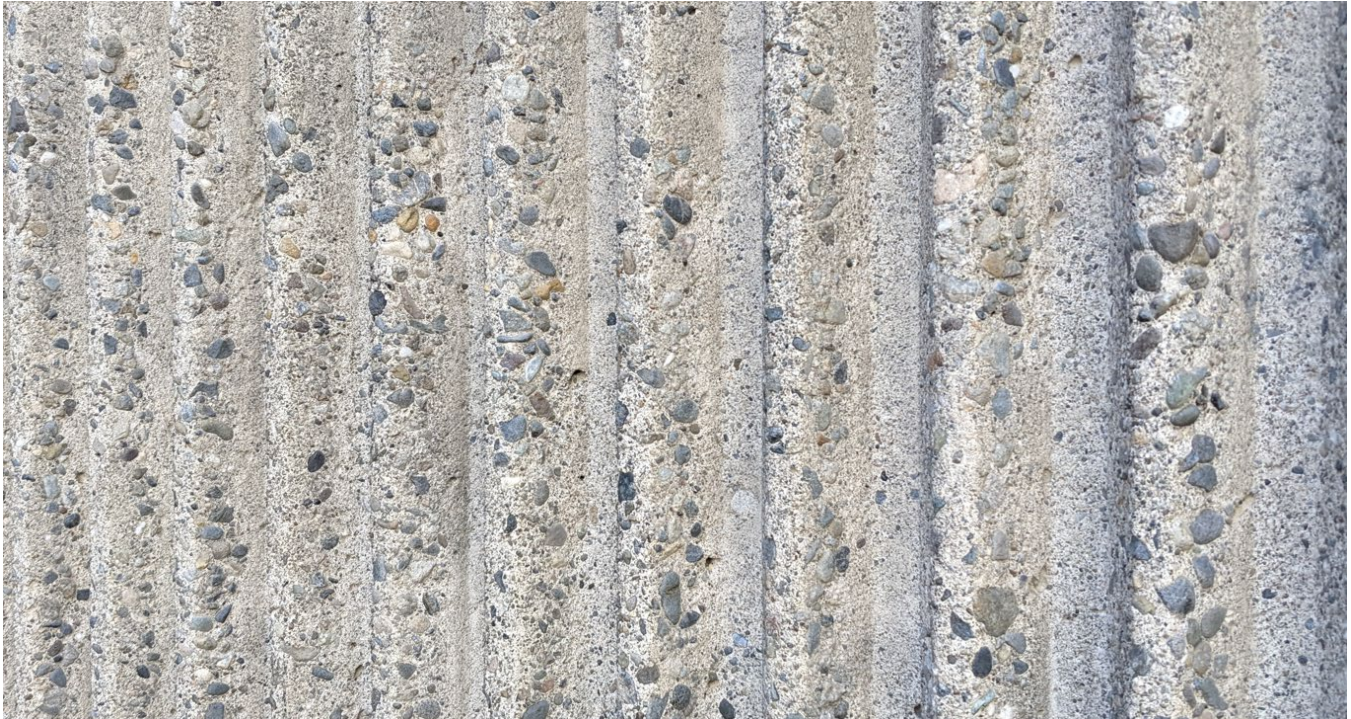






## SOUTHERN STAIERWELL – OUTER FACE

Given the location and elevation of this section, photos of this surface were taken at ground level.





These images are of sample stealth materials that the applicant is proposing to use.











Regarding Color: since the washed concrete aggregate is not a uniform color, there is no simple paint sample that can be matched. The manufacturers of the stealthing material visited the site, took photos, and painted this sample to match the building. From street level, 115' below, the applicant believes that this will blend in well with the existing exterior. Each piece is customized, so if the DON would like more speckles, a different shade, or other cosmetic changes, those can be accommodated.



## SOUTHERN STAIRWELL – INNER FACE

The following photo is of the inner face/surface of the south end stairwell.





The following are of the sample stealthing material.











The above image is of an unpainted sample against the interior stairwell surface for the comparison of textures.

As stated for the building's exterior stealth material, a simple color paint sample is not sufficient to replicate the color and texture of the screening. If the DON would like more speckles, a different shade, or other cosmetic changes, those can be accommodated.





DISH Wireless L.L.C. SITE ID:

SESEA00330A

DISH Wireless L.L.C. SITE ADDRESS:

721 1ST AVE  
SEATTLE, WA 98104

WASHINGTON CODE OF 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

CODE TYPE	CODE
BUILDING	2018 SBC W/ W.A.C. AMENDMENTS
MECHANICAL	2018 IMC W/ W.A.C. AMENDMENTS
ELECTRICAL	2020 NEC W/ W.A.C. AMENDMENTS

SHEET INDEX

SHEET NO.	SHEET TITLE
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A-2A	ANTENNA LAYOUTS
A-3	ANTENNA & RRU SCHEDULES
A-4	NORTH AND SOUTH ELEVATIONS
A-5	EAST AND WEST ELEVATIONS
A-6	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-7	EQUIPMENT DETAILS
A-8	EQUIPMENT DETAILS
S-1	ALPHA & GAMMA SCREEN POST LAYOUT
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S-6	BETA SCREEN ELEVATIONS
S-7	SCREEN CONNECTION DETAILS
S-8	ALPHA & GAMMA ANTENNA MOUNTING DETAILS
S-9	BETA ANTENNA MOUNTING DETAILS
S-10	ALPHA & GAMMA LADDER DETAILS
S-11	BETA LADDER DETAILS
S-12	EQUIPMENT FRAME DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL ONE-LINE, FAULT CALCS & 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	GENERAL NOTES
GN-3	GENERAL NOTES
GN-4	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 (2) PROPOSED FRP SCREEN ON PENTHOUSE
  - INSTALL (12) PROPOSED PANEL ANTENNAS (2 5G ANTENNAS AND 2 MICRO ANTENNAS PER SECTOR)
  - INSTALL PROPOSED JUMPERS
  - INSTALL (12) PROPOSED RRU<sub>s</sub> (4 PER SECTOR)
  - INSTALL (3) PROPOSED SURGE SUPPRESSION DEVICE
  - INSTALL (6) PROPOSED POWER CABLES (2 PER SECTOR) AND (6) PROPOSED FIBER CABLES (2 PER SECTOR)

- GRADE LEVEL SCOPE OF WORK:
- INSTALL (1) PROPOSED BBU IN CABINET
  - INSTALL (1) PROPOSED EQUIPMENT CABINET
  - INSTALL (1) PROPOSED POWER CONDUIT
  - INSTALL (1) PROPOSED TELCO CONDUIT
  - INSTALL (1) PROPOSED NEMA 3 TELCO-FIBER BOX
  - INSTALL (1) PROPOSED GPS UNIT
  - INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED)
  - INSTALL (1) PROPOSED PPC CABINET
  - INSTALL (1) PROPOSED METER SOCKET
  - INSTALL (1) PROPOSED CIENA BOX (IF REQUIRED)

SITE PHOTO



UNDERGROUND SERVICE ALERT - WASHINGTON 811  
UTILITY NOTIFICATION CENTER OF WASHINGTON  
(800) 424-5555  
WWW.WASHINGTON811.COM



CALL 2 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.

SITE INFORMATION

PROPERTY OWNER: 1ST & COLUMBIA GARAGE LLC  
ADDRESS: 402 JACKSON ST FT13  
SAN FRANCISCO, CA 94111  
(206) 501-7014  
SITE TYPE: ROOFTOP

COUNTY: KING

LATITUDE (NAD 83): 47° 36' 10.23" N  
47.60286° N

LONGITUDE (NAD 83): 122° 20' 5.96" W  
122.33499° W

ZONING JURISDICTION: CITY OF SEATTLE

ZONING DISTRICT: PSM 100/100-130

PARCEL NUMBER: 8591400025

OCCUPANCY GROUP: S-2

CONSTRUCTION TYPE: 1A

POWER COMPANY: SEATTLE CITY LIGHT

TELEPHONE COMPANY: T.B.D.

PROJECT DIRECTORY

APPLICANT: DISH WIRELESS LLC.  
5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120  
  
SITE DESIGNER: CORE ONE CONSULTING USA  
506 SECOND AVENUE, SUITE 1533  
SEATTLE, WA 98104  
(206) 582-5060

SITE ACQUISITION: MIKE SLOTEMAKER  
(206) 214-8954

CONSTRUCTION MANAGER: DAVID DUFFY  
(425) 299-3121

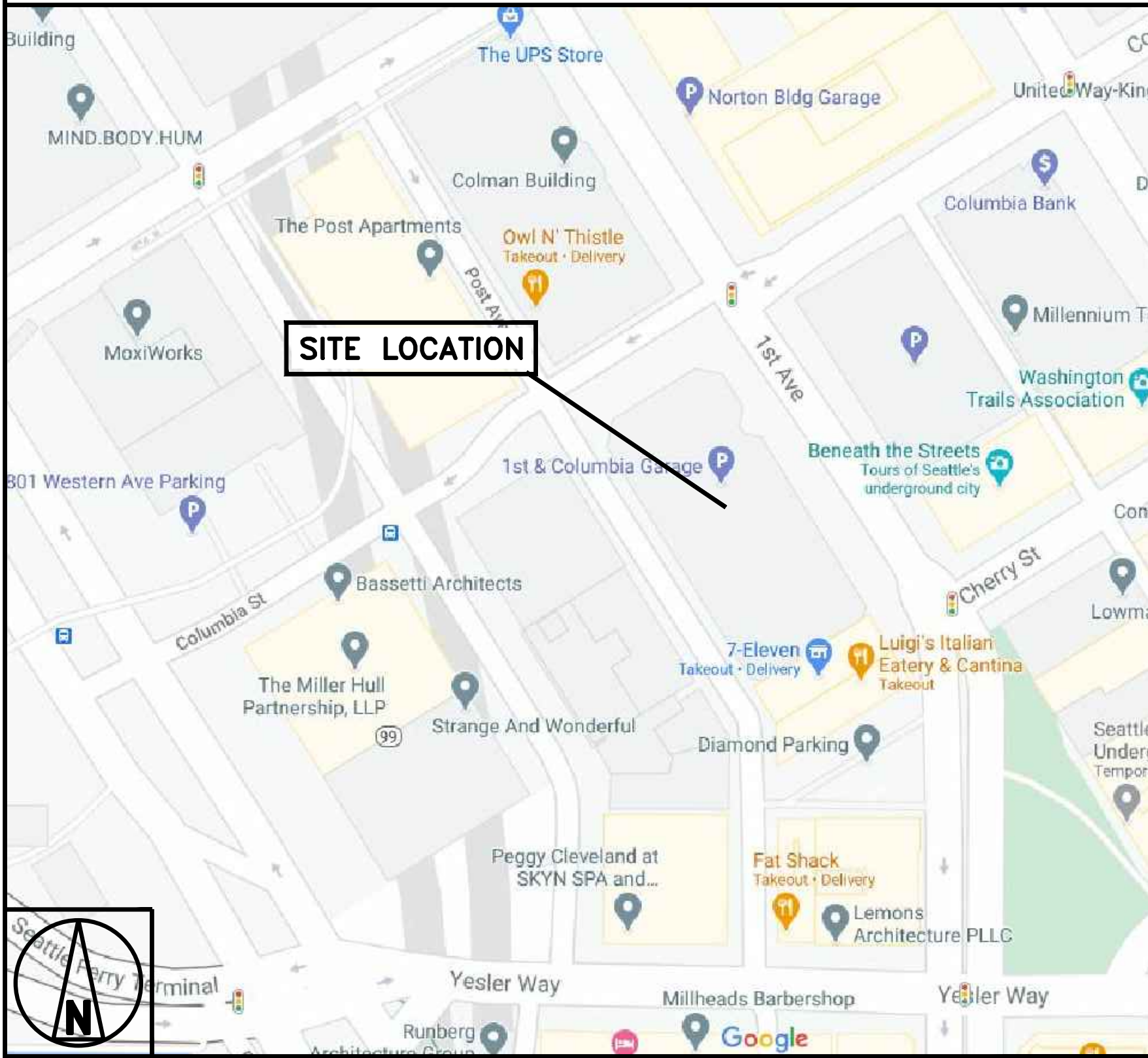
RF ENGINEER: MOHAMED ALFASI  
(562) 552-2122

DIRECTIONS

DIRECTIONS FROM SEATTLE AIRPORT:

GET ON WA-518 W FROM AIRPORT EXPRESSWAY, HEAD SOUTHEAST ON AIRPORT EXPRESSWAY TOWARD DEPARTURES DR, KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR WA-518 W/WA-509/BURIEN AND MERGE ONTO WA-518 W, TAKE WA-509 N AND HWY 99 N TO S DEARBORN ST IN SEATTLE. TAKE THE ALASKAN WAY S EXIT FROM HWY 99 N, DRIVE TO 1ST AVE S, TURN RIGHT ONTO S DEARBORN ST, TURN LEFT ONTO 1ST AVE S, DESTINATION IS ON THE LEFT.

VICINITY MAP



5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120



506 SECOND AVE, SUITE 1533  
SEATTLE, WA 98104

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:

A.D. L.C. M.L.

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	08/23/2021	ISSUED FOR REVIEW
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C	04/21/2022	GENERAL REVISIONS

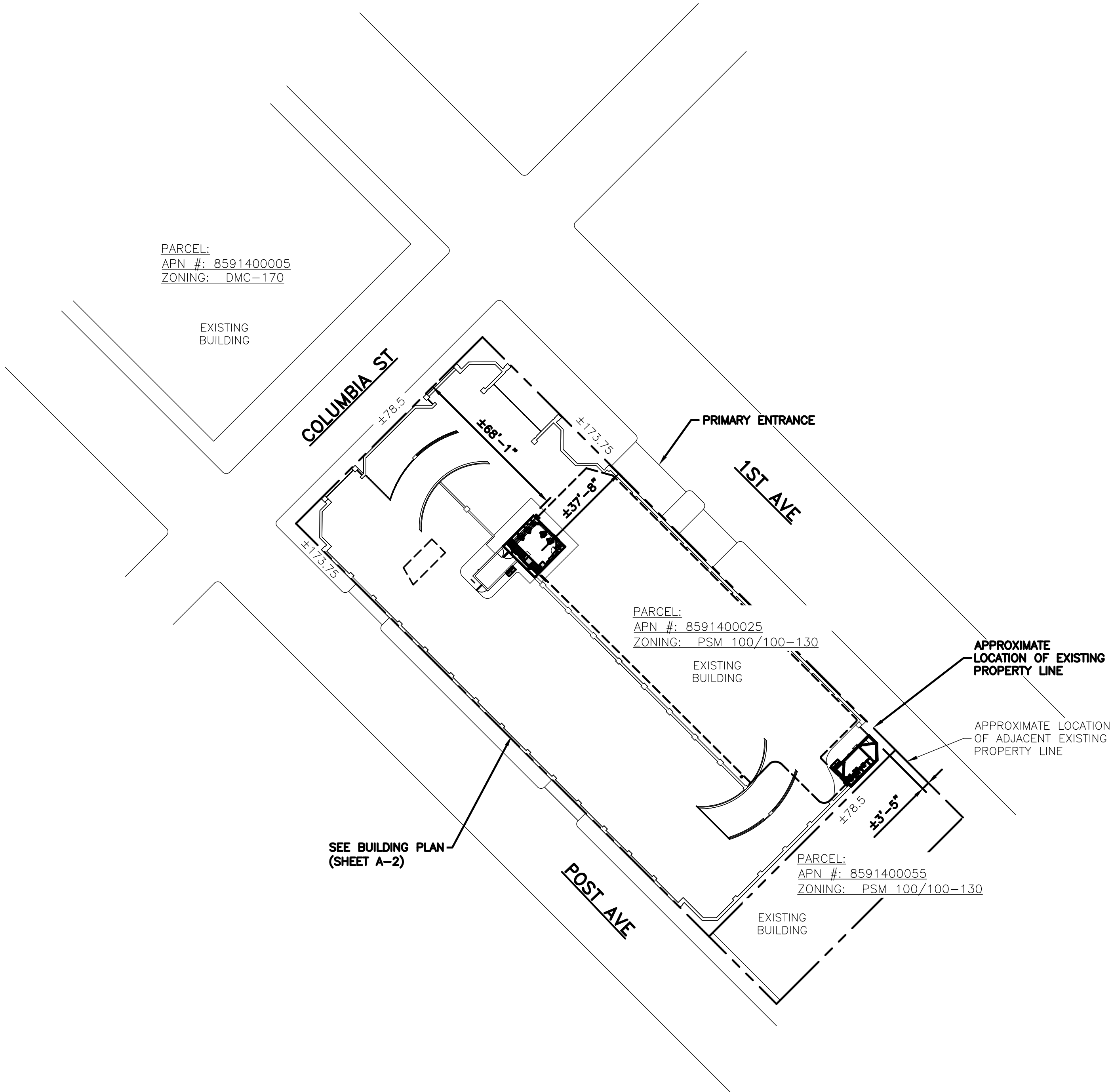
A&E PROJECT NUMBER  
SESEA00330\_A

DISH Wireless L.L.C.  
PROJECT INFORMATION  
SESEA00330\_A  
721 1ST AVE  
SEATTLE\_WA\_98104

SHEET TITLE  
TITLE SHEET

SHEET NUMBER  
T-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.

LEGAL DESCRIPTION:

TERRYS 3RD ADD ALSO ALL OF BL 196 STL

PLAT BLOCK:

M

PLAT LOT:

1 THRU 6



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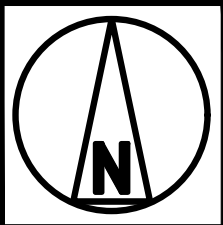
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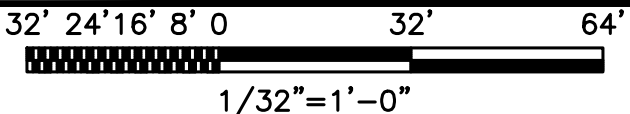
SHEET TITLE  
OVERALL  
SITE PLAN

SHEET NUMBER

A-1



OVERALL SITE PLAN





ROOFTOP COVERAGE CALCULATIONS (ESTIMATED)

MAIN ROOF CALCULATIONS:		% OF OVERALL ROOF AREA
EXISTING OVERALL ROOF AREA	26132 S.F.	
EXISTING PENTHOUSE	795 S.F.	3.0%
PROPOSED DISH WIRELESS EQUIPMENT	167 S.F.	0.6%

PROPOSED DISH WIRELESS EQUIPMENT CABINET, ANTENNA MOUNTS AND FRP SCREEN DESIGN ARE PRELIMINARY ONLY. FINAL LOCATION AND DESIGN WILL BE BASED UPON RECEIPT OF EXISTING BUILDING DRAWINGS

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3. CONTRACTOR TO VERIFY WITH DISH WIRELESS 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 EQUIPMENT THAT IS RESTING ON OR AFFIXED TO ROOF MEMBRANE



5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120



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SEATTLE, WA 98104

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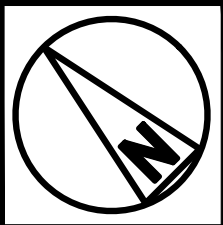
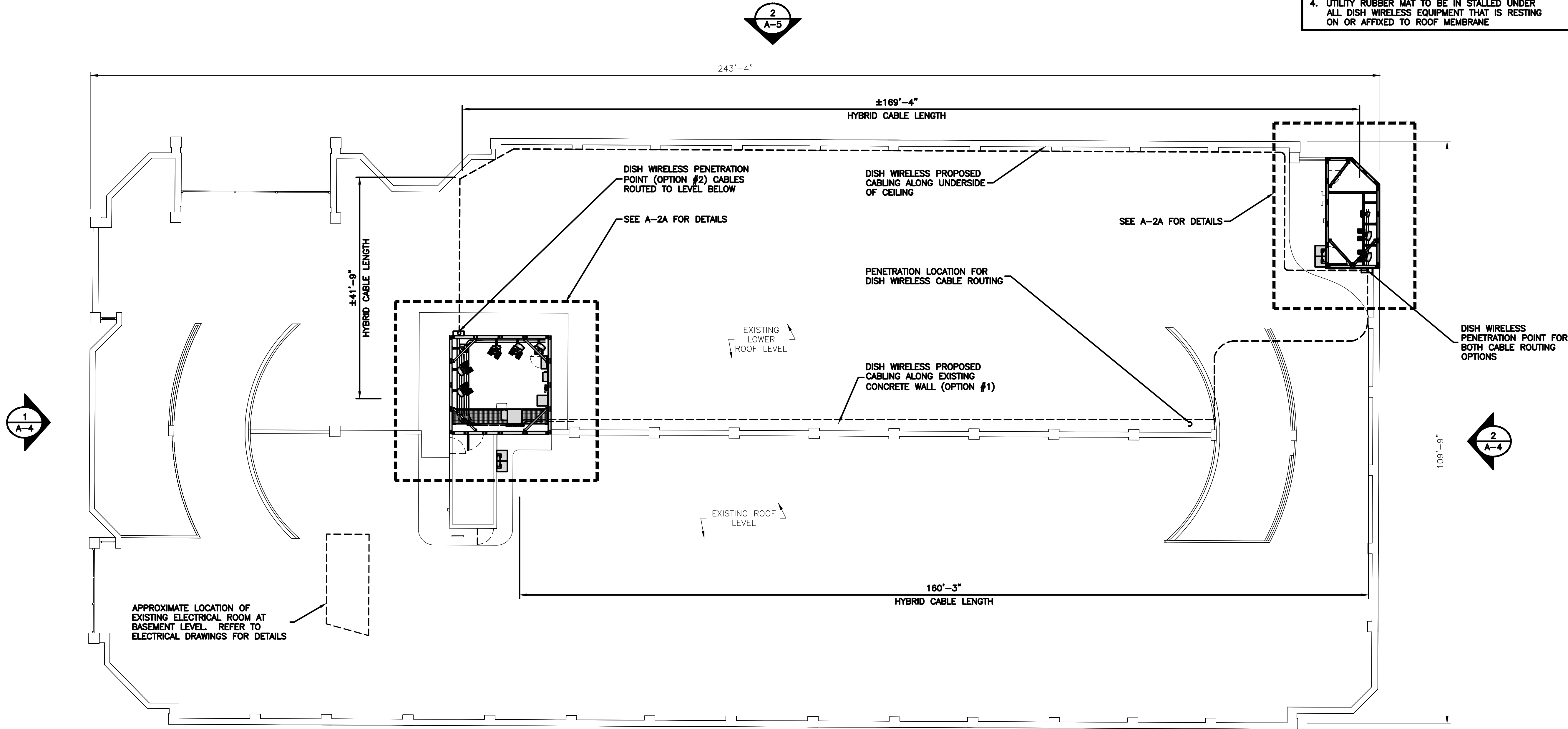
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DISH Wireless L.L.C.  
PROJECT INFORMATION  
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721 1ST AVE  
SEATTLE\_WA\_98104

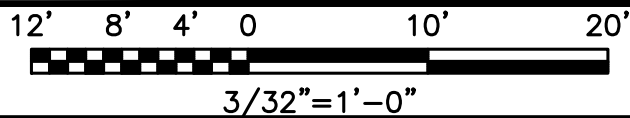
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ENLARGED BUILDING  
PLAN

SHEET NUMBER

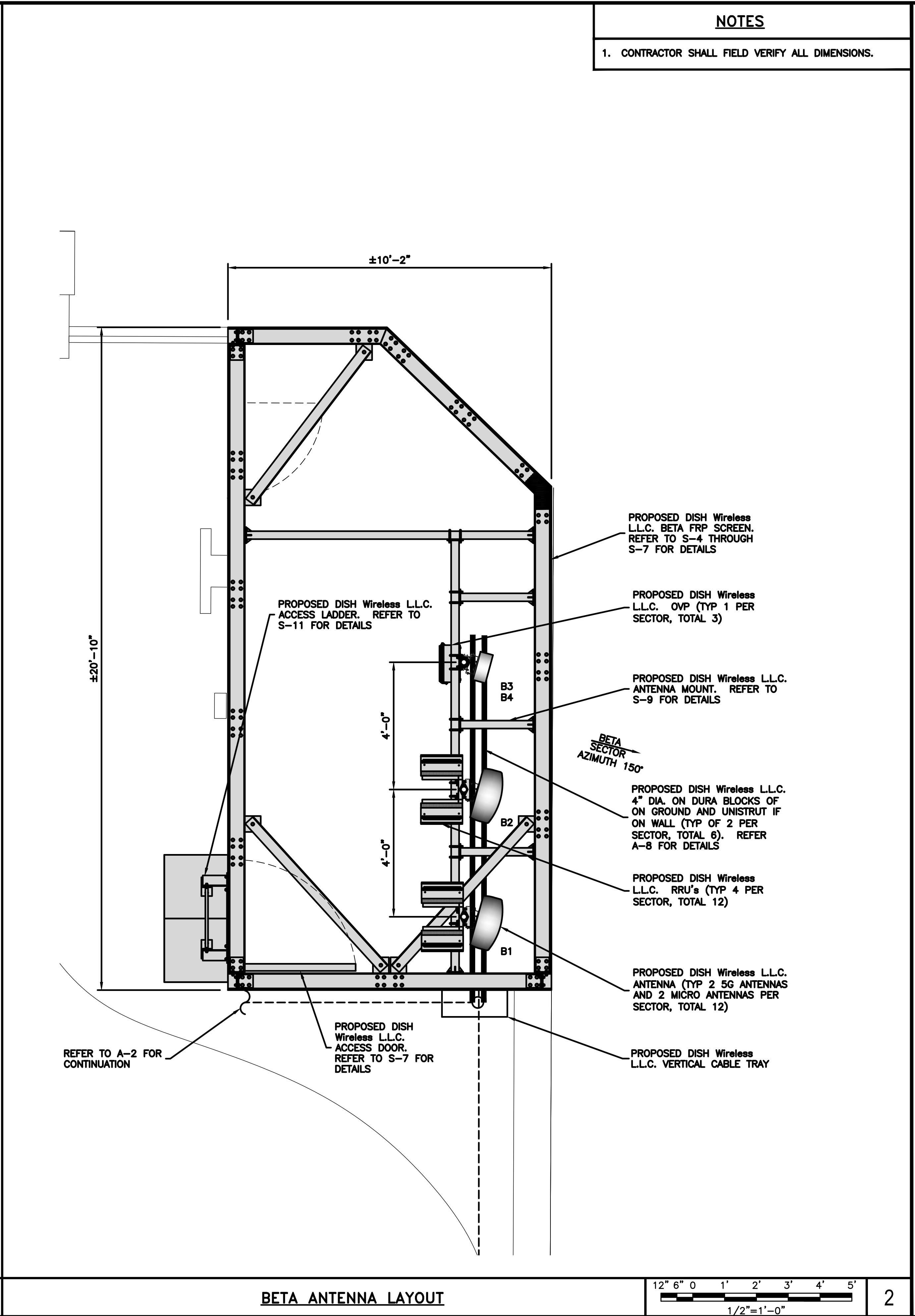
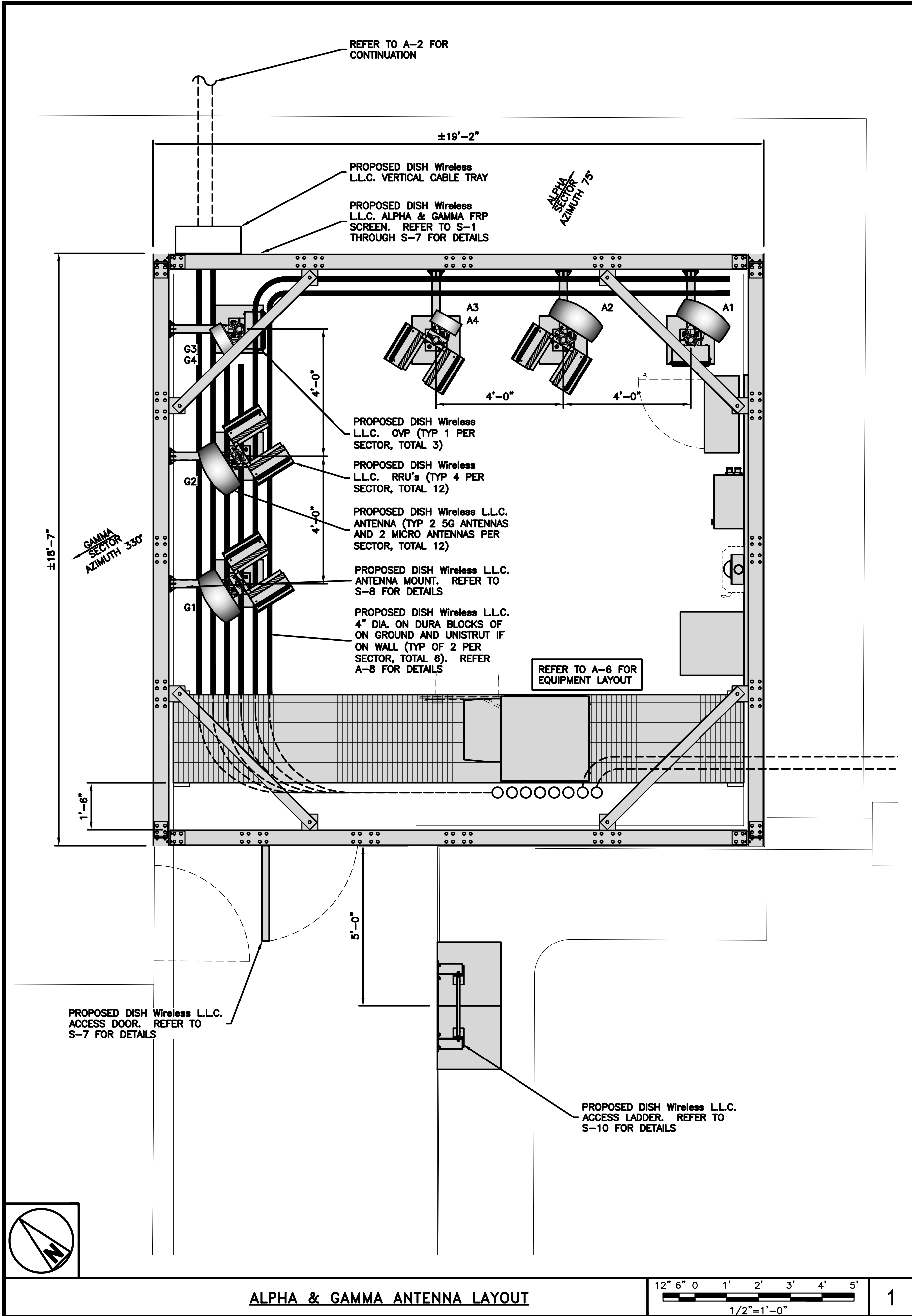
A-2



BUILDING PLAN







5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120



506 SECOND AVE, SUITE 1533  
SEATTLE, WA 98104

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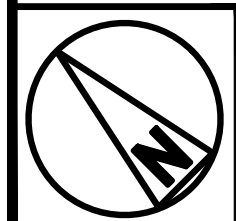
721 1ST AVE  
SEATTLE\_WA\_98104

SHEET TITLE

ANTENNA LAYOUTS  
LAYOUTS

SHEET NUMBER

A-2A

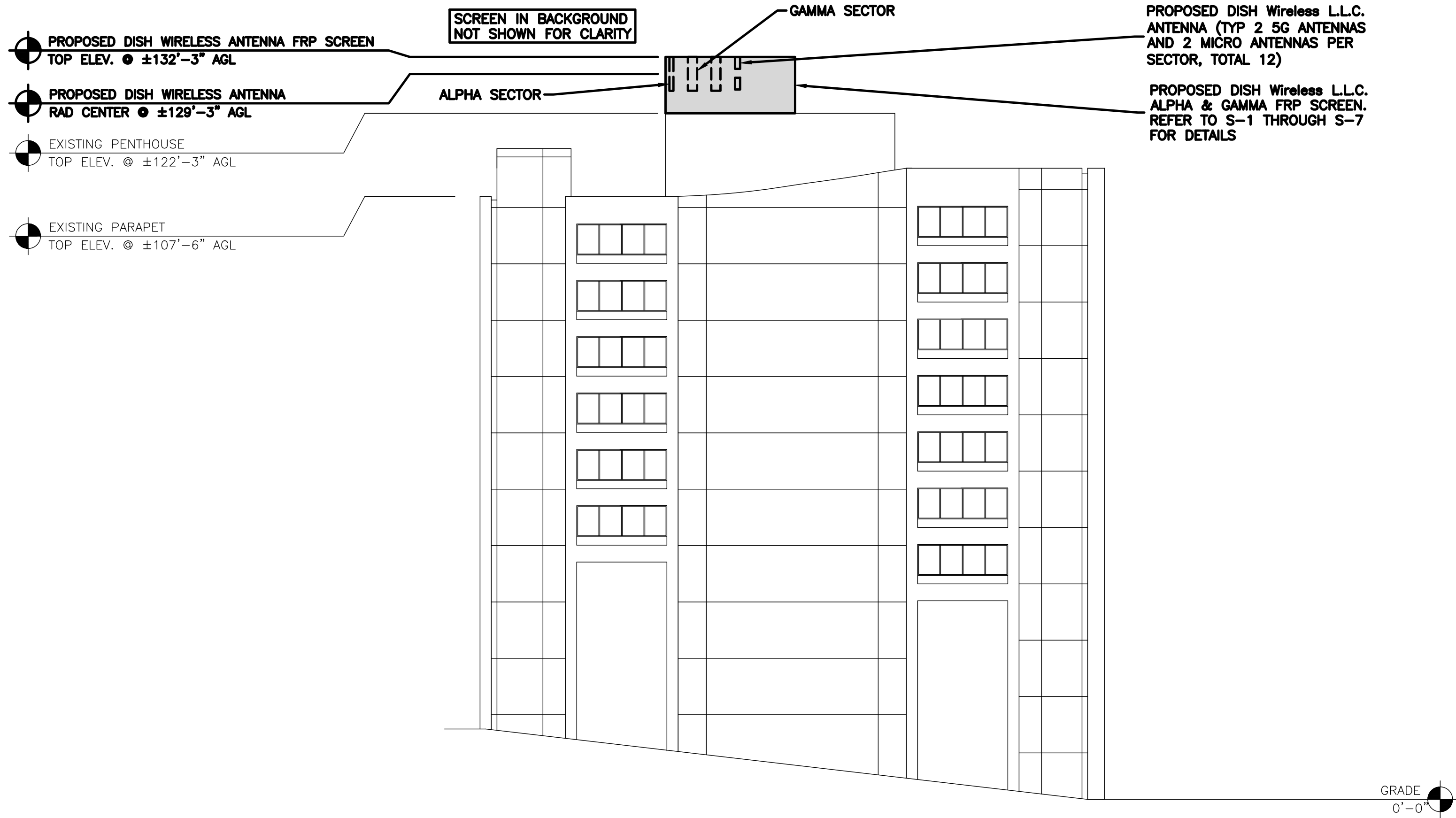




SECTOR	POSITION	ANTENNA						TRANSMISSION CABLE
		EXISTING OR PROPOSED	MANUFACTURER -- MODEL NUMBER	TECHNOLOGY	SIZE (HxW)	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH
ALPHA	A1	PROPOSED	MX08FR0665-21_VOF	5G	72.0" x 20.0"	75°	129'-3"	(1) HIGH-CAPACITY (3) POWER CABLES (2) FIBER CABLES (25' LONG ±)
	A2	PROPOSED	MX08FR0665-21_VOF	5G	72.0" x 20.0"	75°	129'-3"	
	A3	PROPOSED	CCI-HPA45F-TE2AA	MICRO	25.9" x 15.9"	75°	129'-3"	
	A4	PROPOSED	CCI-HPA45F-TE2AA	MICRO	25.9" x 15.9"	75°	129'-3"	
BETA	B1	PROPOSED	MX08FR0665-21_VOF	5G	72.0" x 20.0"	150°	122'-6"	(1) HIGH-CAPACITY (3) POWER CABLES (2) FIBER CABLES (270' LONG ±)
	B2	PROPOSED	MX08FR0665-21_VOF	5G	72.0" x 20.0"	150°	122'-6"	
	B3	PROPOSED	CCI-HPA45F-TE2AA	MICRO	25.9" x 15.9"	150°	122'-6"	
	B4	PROPOSED	CCI-HPA45F-TE2AA	MICRO	25.9" x 15.9"	150°	122'-6"	
GAMMA	C1	PROPOSED	MX08FR0665-21_VOF	5G	72.0" x 20.0"	330°	129'-3"	(1) HIGH-CAPACITY (3) POWER CABLES (2) FIBER CABLES (25' LONG ±)
	C2	PROPOSED	MX08FR0665-21_VOF	5G	72.0" x 20.0"	330°	129'-3"	
	C3	PROPOSED	CCI-HPA45F-TE2AA	MICRO	25.9" x 15.9"	330°	129'-3"	
	C4	PROPOSED	CCI-HPA45F-TE2AA	MICRO	25.9" x 15.9"	330°	129'-3"	

SECTOR	POSITION	RRH		NOTES
		MANUFACTURER -- MODEL NUMBER	TECHNOLOGY	
ALPHA	A1	TA08025-B604	n70/n66	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	TA08025-B605	n70/n66	
	A2	TA08025-B604	n70/n66	
	A2	TA08025-B605	n70/n66	
BETA	B1	TA08025-B604	n70/n66	
	B1	TA08025-B605	n70/n66	
	B2	TA08025-B604	n70/n66	
	B2	TA08025-B605	n70/n66	
GAMMA	G1	TA08025-B604	n70/n66	
	G1	TA08025-B605	n70/n66	
	G2	TA08025-B604	n70/n66	
	G2	TA08025-B605	n70/n66	





NOTES

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3. PAINT ANTENNA SCREEN AND CONDUITS TO MATCH EXISTING BUILDING.

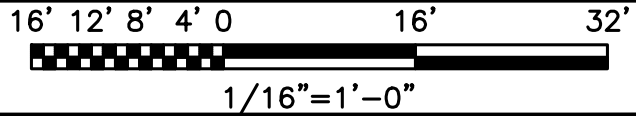


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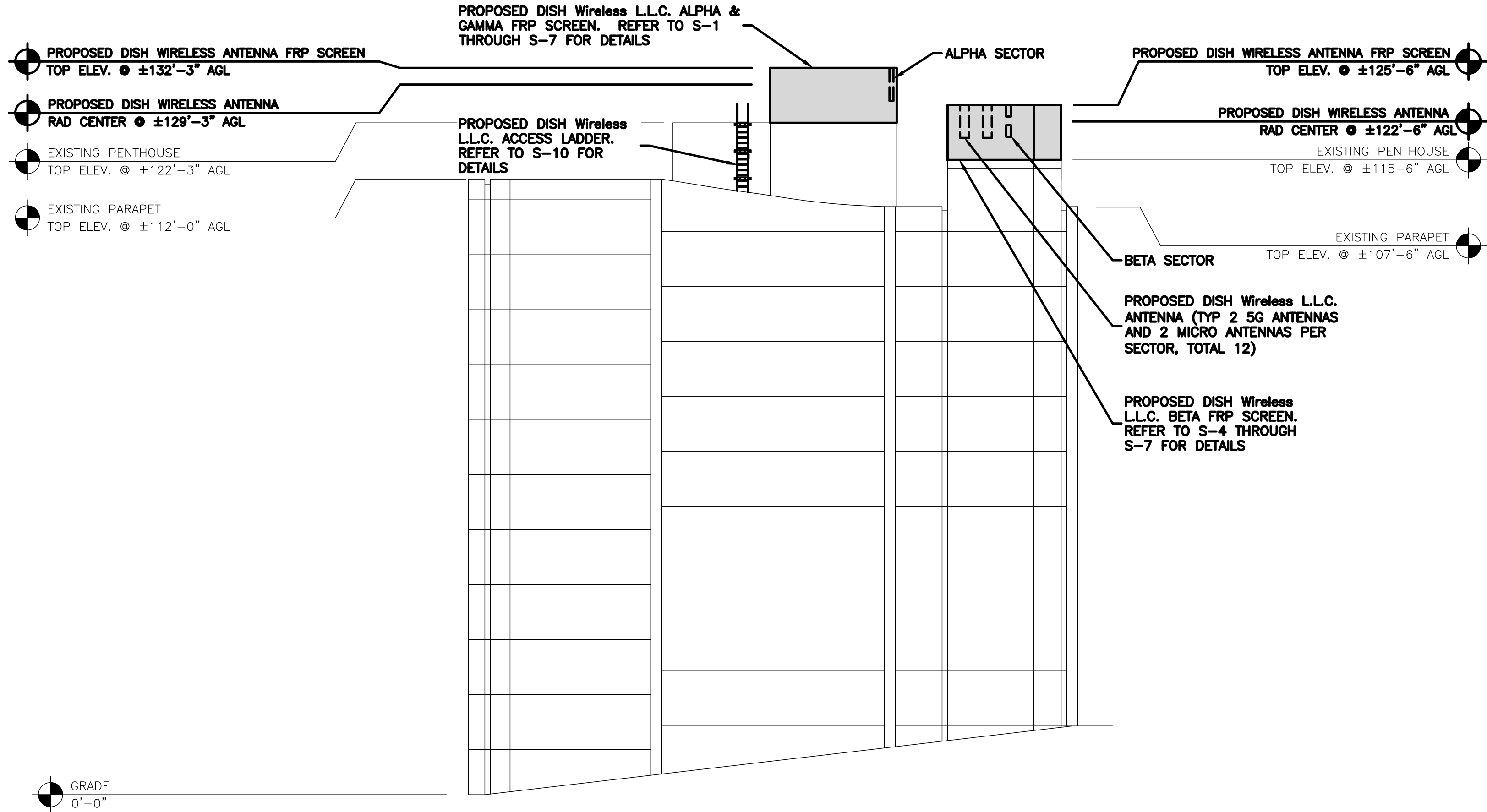


506 SECOND AVE, SUITE 1533  
SEATTLE, WA 98104

BUILDING NORTH ELEVATION



1



NOTES

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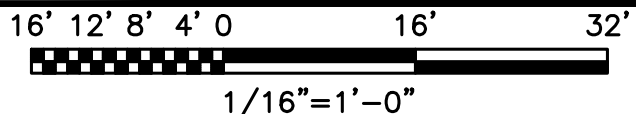
DISH Wireless L.L.C.  
PROJECT INFORMATION  
SESEA00330\_A  
721 1ST AVE  
SEATTLE\_WA\_98104

SHEET TITLE  
NORTH AND SOUTH  
ELEVATIONS

SHEET NUMBER

A-4

BUILDING SOUTH ELEVATION



2



**April 28, 2022 (Revised June 24, 2022)**

**SESEA00330A Responses to Corrections Request for Department of Neighborhoods**

The following are responses and comments to the requested corrections submitted on 1/4/22.

**A-1:**

**Request:** Scale Drawings: Please provide the measurement of the setback of the equipment and surround from the property line on both the 1st Ave side and the neighboring property on south. Provide the set back from the 1st Ave and from Columbia St for the equipment and surround in the center of the building.

**Response:** Setbacks have been added

**A-2A:**

**Request:** Finishes: Please provide finishes, materials and color samples. Your description say you will be textured and grooved to match the existing materials. Considering it is concrete, what will be the material of the surround and provide a sample of what the textured appearance will look like. Provide a photo of that sample in context to the existing building material. The letter you provided saying you will color match is not sufficient.

**Response:** The applicant has included a document that has photos and color samples of the proposed materials to be used for stealthing, as well as photos and close-up images of the building for comparison.

**Materials:** All the proposed stealth materials for this project, whether it is simulated cinder block or one of the other concrete finishes, are made from fiberglass reinforced panels (FRP). This material can be shaped into any texture needed, then is glued to a rigid foam core that is lightweight but provides the needed rigidity and backing support for the FRP to be mounted.

**Request:** Description of Work: Please provide a written description of proposed work. include an explanation as to why this highly visible location on the corner is necessary. This location does not appear to meet the minimum setback requirement in SMC 23.66.140.

**Response:** The proposed design for the Beta antenna sector, located on the on the stairwell penthouse on the southeast corner of the building, is to construct a stealth screened enclosure to contain the antennas and associated remote radio units. The logic behind proposing this design are the following:



- Due to the length of the building, and the applicant's need to provide coverage to the south, placing the Beta sector above the elevator penthouse with the other sector would have resulted in a substantial blockage of signal. This is because the building itself would have blocked and preventing any signals from reaching customers at street level anywhere near the building's southern end.
- The applicant decided against flush mounting the antennas for several reasons.
  - Stealthing. There is no known way to effectively camouflage or conceal the antennas given the texture of the building's exterior. Painting alone would not have been very effective. It would help the antennas blend in, but the mounting pipes and cabling would still be visible, drawing attention to the area and making it obvious antennas were present.
  - Screening boxes. By installing boxes to the exterior of the building, the applicant could effectively screen the antennas, mounts, and cabling, but the protrusion of a box type structure at least 24" from the building's face was deemed to be more of an eyesore, especially when viewed from Cheery St, then an extension to the stairwell penthouse given the long, flat, unbroken surface of the southern wall.
  - Garage level antennas: The applicant would have preferred to place antennas in the gaps between the 9<sup>th</sup> level and roof level parking, but as noted above, the southern end of the building is a large, flat, unbroken surface. And given the Beta sector's azimuths, placement in this area was not possible.
  - Preventing Future Public Inconvenience. Installing antennas on the south face, using any methods of flush mounted antennas, can not be installed, maintained, modified, or otherwise worked on in any significant factor via the roof. Only street based equipment such as a crane, scaffolding, or manlift would be needed every time the site needs repairs, modifications, or alterations causing temporary sidewalk and/or street closures for both pedestrian and vehicles. By placing the antennas within a fully screened structure on the stairwell penthouse, the equipment will be fully accessible from the upper parking garage, so all future work on the antennas and radios can be done with no impact to pedestrian or vehicular traffic.
  - Safety: For obvious reasons, placing the antennas within an enclosed structure instead of mounting to the building's face, worker safety significantly improved and the opportunity for accidents are drastically reduced. Additionally, while ice build-up of any significance is rare, it does happen on occasion, and by not having a protruding antenna and mounting hardware that can accumulate ice, the potential for pedestrian injuries or property damage from falling ice is greatly reduced.



In summary, the proposed project does not meet the 15' setback requirement from 1<sup>st</sup> Ave, but per Section 23.66.140.C.3, "...setbacks required for rooftop features may be modified by the Department of Neighborhoods Director...". The applicant believes the proposed design is the most visually unobtrusive option given the design of the buildings and the reasons stated above.

A-4:

Request: Description of Work: Explore if it is possible to install the antennas at a height closer to the height of the penthouse. Explore an alternative to install the antennas on the sides of the existing penthouse as they are in other location in the district.

Response: The applicant looked into side mounting the antennas on the elevator penthouse, but due to the location of the penthouse in the center of the building, 68' from the north end, and almost 38' to the eastern edge, as stated before, the applicant's signals would be significantly blocked by the building for customers on the at or near street level on the north and east sides. Even with the proposed elevations above the penthouse, there will be areas of poor coverage at street level. Additionally, for the Alpha sector, if mounted on flush on the penthouse wall, the antenna would be low enough that the public would walk directly in front of the antennas signals. To meet required safety distances, there would need to be large exclusion area in front of the antennas, limiting the number of parking spots for the property owner's business.

A-4 & A-5:

Request: Scale Drawings: Provide the height of the roof. Provide the height of the top of the antennas above the roof of the building. (not the roof of the stair penthouse.)

Response: These elevations have been added to the plans.