

# STAFF REPORT FOR ADMINISTRATIVE PERMIT REVIEW OF FEBRUARY 23, 2022

FILE NO: LU-2022-0031

AGENDA ITEM: 3.B.

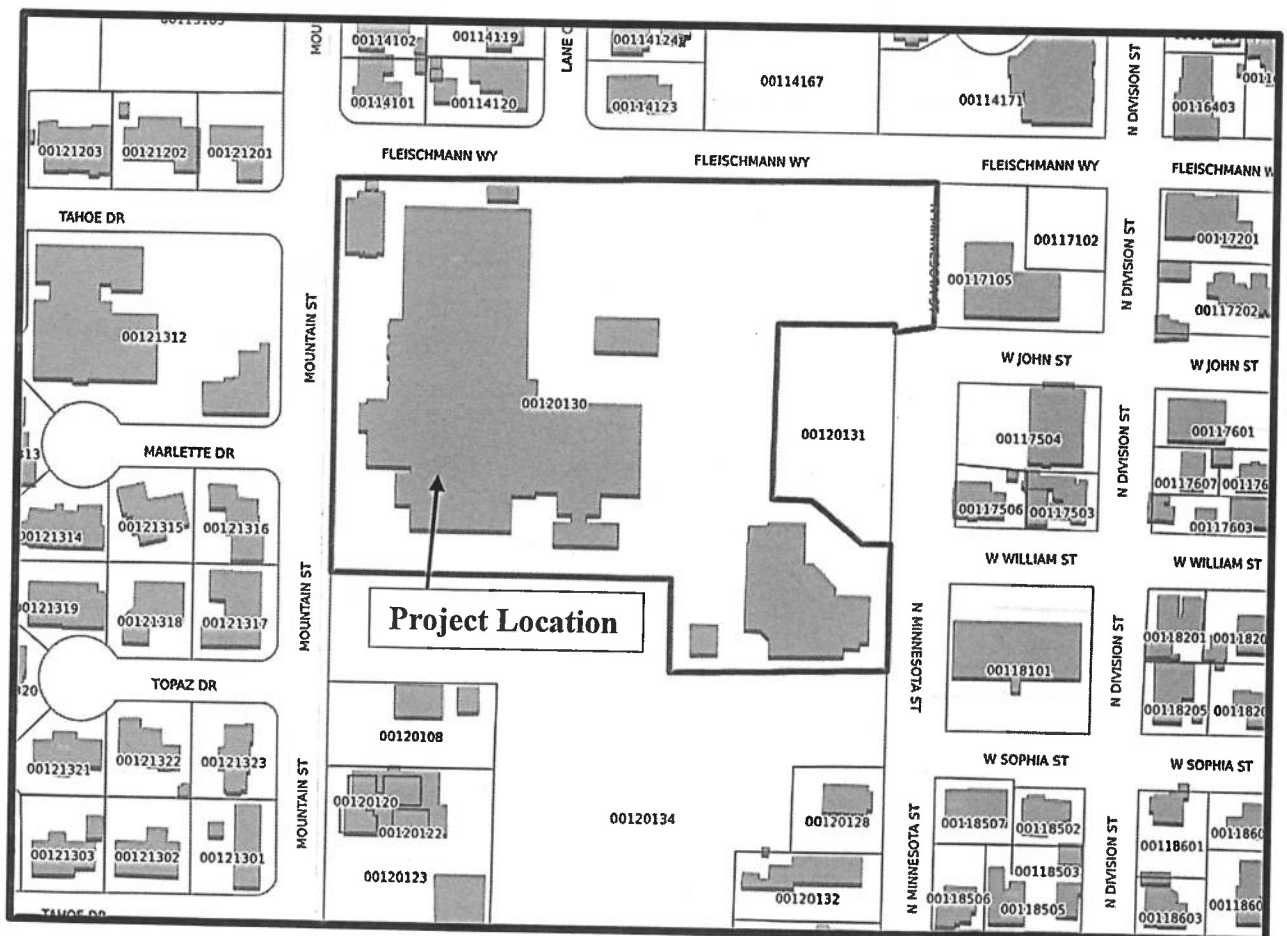
STAFF CONTACT: Lena Reseck, Assistant Planner

**AGENDA TITLE:** For Possible Action: Discussion and possible action regarding a request for an Administrative Permit to allow for the location of equipment on an existing public facility zoned Public Regional (PR) located at 775 Fleischmann Way, APN 001-201-30. (Lena Reseck, lreseck@carson.org)

Summary: The applicant is proposing to locate three panel antennas in fiber reinforced plastic (FRP) enclosures on the rooftop and equipment within the existing equipment penthouse located on the rooftop. The antennas and FRP enclosures will be located 8.8 feet above the existing building height of 41.5 feet. Per 18.15.025(2)(a) wireless telecommunication facilities and/or equipment may locate on an existing public facility provided that such installations do not increase the height of the existing structure by more than ten feet with the approval of an administrative permit.

**RECOMMENDED MOTION:** "I move to approve LU-2022-0031, based on the findings and subject to the conditions of approval contained in the staff report."

## VICINITY MAP:



**RECOMMENDED CONDITIONS OF APPROVAL:**

**The following shall be completed prior to commencement of the use:**

1. The applicant must sign and return the Notice of Decision for conditions or approval within 10 days of receipt of notification. If the Notice of Decision is not signed and returned within 10 days, then the item may be rescheduled for the next Administrative Hearing Examiner meeting for further consideration.
2. All development shall be substantially in accordance with the development plans approved with this application, except as otherwise modified by these conditions of approval.
3. All on- and off-site improvements shall conform to City standards and requirements.
4. The applicant shall obtain a building permit from the Carson City Building Division prior to any proposed construction.
5. The applicant shall meet all the conditions of approval and commence the use for which this permit is granted within 12 months of the date of final approval. A single, one year extension of time may be granted if requested in writing to the Community Development Department 30 days prior to the one year expiration date. Should this permit not be initiated within one year and no extension granted, the permit shall become null and void.

**The following shall be submitted with any building permit application:**

6. The applicant shall submit a copy of the notice of decision, conditions of approval, and an explanation of how the request addresses each condition with the building permit application.
7. The FRP antenna enclosures shall match the color of the existing rooftop equipment penthouse and the existing public facility. The applicant shall provide the Planning Division with the proposed color choices for review and approval with the building permit.

**The following applies to the site throughout the life of the project:**

8. This permit shall become null and void and the wireless communication antennas, enclosures, and ancillary equipment shall be removed from the site if and when the use is abandoned for a period of more than 12 consecutive months.

**LEGAL REQUIREMENTS:** CCMC 18.02.110 (Administrative Permits), 18.04.185 (Public Regional Uses), 18.15 (Communication Facilities and Equipment), and Development Standards Division 1 Land Use and Site Design at 1.9 (Wireless Telecommunication Facilities and Equipment).

**MASTER PLAN DESIGNATION:** Mixed-Use Residential

**PRESENT ZONING:** Public Regional (PR)

**KEY ISSUES:** Will the propose be in keeping with all the standards of the Carson City Municipal

Code?

#### **SURROUNDING ZONING AND LAND USE INFORMATION**

WEST: Single Family 6000 and Residential Office  
EAST: Residential Office  
NORTH: Single Family 6000  
SOUTH: Multi-Family Apartments and Residential Office

#### **ENVIRONMENTAL INFORMATION**

FLOOD ZONE: X Shaded (Low-Risk Flood Zone)  
EARTHQUAKE FAULT: Greatest Severity, Zone 1 within 500 feet  
SLOPE: Site is flat

#### **SITE DEVELOPMENT INFORMATION**

LOT SIZE: 7.15 acres  
STRUCTURE SIZE/HEIGHT: The existing rooftop is 41.5 feet tall. The added antennas and enclosures will be located 50.3 feet high not increasing the existing height by more than 10 feet. The equipment will be in an existing rooftop equipment penthouse.

#### **DISCUSSION:**

Carson City Municipal Code (CCMC) 18.15 *Communication Facilities and Equipment* requires approval of an Administrative Permit for the locating of wireless telecommunication facilities and/or equipment on any existing public facility provided such installations do not increase the height of the existing structure by more than 10 feet.

Dish Wireless is proposing to locate three antennas in FRP enclosures on the rooftop of an existing public facility and the installation of equipment in an existing equipment penthouse located on the rooftop of the public facility.

**PUBLIC COMMENTS:** On February 7, 2022, public notices were mailed to 143 adjacent property owners within 600 feet of the subject site. As of the writing of this report, staff has received one written comment. Any comments that are received after this report is completed will be submitted to the Hearings Examiner prior to or at the meeting on February 23, 2022, depending on the date of submission of the comments to the Planning Division.

**OTHER CITY DEPARTMENTS OR OUTSIDE AGENCY COMMENTS:** The following comments were received by various city departments. Recommendations have been incorporated into the recommended conditions of approval, where applicable.

#### **Development Engineering:**

The Development Engineering Division has no preference or objection to the special use request provided that the following conditions are met:

- The project must obtain permits for site work and any work required in the right-of-way.
- The project must meet all Carson City Development Standards and Standard Details.

#### **Development Engineering Discussion:**

The Development Engineering has reviewed the application within our areas of purview relative to adopted standards and practices and to the provisions of CCMC 18.02.080, Conditional Uses. Development Engineering offers the following discussion:

**CCMC 18.02.080 (5a) - Master Plan**

The request is not in conflict with any Engineering Master Plans.

**CCMC 18.02.080 (5b) – Use, Peaceful Enjoyment, Economic Value, Compatibility**

Development Engineering has no comment on this finding.

**CCMC 18.02.080 (5c) - Traffic/Pedestrians**

Local intersections: The closest intersection is Fleischmann Way and Mountain St. Mountain St is a minor collector while Fleischmann Way is a local street.

The request has a negligible impact to pedestrian and vehicular traffic.

**CCMC 18.02.080 (5d) - Public Services**

Sanitary Sewer: This project has no impact on city sewer.

Water: This project has no impact on city water.

Storm Drain: This project has no impact on city storm drain.

Public Lands: Parcel adjoins Treadway Park along N Minnesota Street.

**CCMC 18.02.080 (5e) – Title 18 Standards**

Development Engineering has no comment on this finding.

**CCMC 18.02.080 (5f) – Public health, Safety, Convenience, and Welfare**

The project meets engineering standards for health and safety.

Earthquake faults: The closest fault is about 450 feet away with a slip rate of less than 0.2 mm/yr.

FEMA flood zones: The current FEMA flood zone is Zone X (shaded) so no special flood mitigation is required.

Site slope: The site is currently developed.

Soils and Groundwater: The site is currently developed.

**CCMC 18.02.080 (5g) – Material Damage or Prejudice to Other Property**

Development Engineering has no comment on this finding.

**CCMC 18.02.080 (5h) – Adequate Information**

The plans and reports provided were adequate for this analysis.

**Fire Department:**

1. Project must comply with the International Fire Code and Northern Nevada Fire Code Amendments as adopted by Carson City.

**FINDINGS:** Staff's recommendation is based upon the findings as required by CCMC Section 18.02.080 (Special Use Permits) enumerated below and substantiated in the public record for the project.

***1. Will be consistent with the master plan elements.***

The addition of antennas to an existing public facility rooftop is consistent with the Master Plan, specifically Goal 3.2c – Communication Facilities and Equipment “Ensure that communication facilities and equipment, such as rooftop antennas, are located and designed so as to not detract from the City's visual quality”. The proposed Dish Wireless facility is the least intrusive means to improve coverage and capacity relief by locating on an existing public facility and locating the ground equipment within an existing equipment penthouse. The overall height will not increase

more than 10 feet.

***2. Will not be detrimental to the use, peaceful enjoyment, economic value, or development of surrounding properties or the general neighborhood; and will cause no objectionable noise, vibrations, fumes, odors, dust, glare, or physical activity.***

The proposed project, as designed and conditioned, will not be detrimental to the use, peaceful enjoyment, economic value, or development of surrounding properties or the general neighborhood. The project will not cause objectionable noise, vibrations, fumes, odors, dust, glare or physical activity. The equipment will be in an existing equipment penthouse and the antennas will be in FRP antennas. Additionally, Dish Wireless's installation will help support the 5G connectivity needs of residents, businesses, and first responders.

***3. Will have little or no detrimental effect on vehicular or pedestrian traffic.***

Once the equipment is installed, traffic to the site will be related to maintenance of the equipment. The proposal will not have an impact on vehicular or pedestrian traffic.

***4. Will not overburden existing public services and facilities, including schools, police and fire protection, water, sanitary sewer, public roads, storm drainage, and other public improvements.***

The facility will be un-manned and therefore will not require the extension or expansion of any public services and facilities are adequate in the area to accommodate the proposed facility.

***5. Meets the definition and specific standards set forth elsewhere in this title for such particular use and meets the purpose statement of that district.***

Per Title 18.15.025.2a, Wireless telecommunication facilities and/or equipment may locate on any existing public facility subject to a building permit, approval of an administrative permit, and subject to Division 1.9 of the Development Standards, provided that such installations do not increase the height of the existing structure by more than 10 feet. Title 18 of the Development Standard provides standards for Development of Wireless Communication Facilities. Compliance with these provisions is outlined below:

***1. Location and Placement Standards.***

**The applicant is proposing to locate screened antennas on an existing public facility. Per Development Standards, this is a more desirable method of placing antennas than constructing a new tower. The equipment will be in an existing equipment penthouse.**

*Either the applicant or co-applicant must be a carrier licensed by the Federal Communications Commission and submit documentation of the legal right to install and use the proposed facility.*

**Documentation has been submitted.**

***2. Height and Dimensional Standards.***

**The antennas and FRP enclosures will be located 8.8 feet above the existing building height of 41.5 feet. The visual impact will be minimal.**

3. *Setbacks.*

**The new equipment will be placed on an existing public facility rooftop and will be screened.**

4. *Design Standards.*

**The proposed FRP screens around the antennas will match the color of the existing public facility. The existing equipment shelter is located on the rooftop and painted the same color as the building.**

***6. Will not be detrimental to the public health, safety, convenience and welfare.***

The proposed antennas and related equipment will not be detrimental to the public health, safety, convenience, and welfare, and will cause no adverse impacts to surrounding properties. The antennas will help increase wireless coverage and will help support the 5G connectivity needs of residents, businesses, and first responders.

***7. Will not result in material damage or prejudice to other property in the vicinity.***

As noted above, the impacts of the proposed facility, with the recommended conditions of approval, will be minimal and will not result in material damage or prejudice to other property in the vicinity as the proposed antennas will be located on the rooftop of an existing public facility and the equipment will be in an existing rooftop equipment penthouse. The FRP enclosures around the antennas will be painted to match the existing building.

Attachments:

Application LU-2022-0031  
Public Comment

Carson City Planning Division  
108 E. Proctor Street • Carson City NV 89701  
Phone: (775) 887-2180 • E-mail: [planning@carson.org](mailto:planning@carson.org)

FOR OFFICE USE ONLY:

CCMC 18.02.080

FILE # LV-2022-0031

Administrative Permit

FEE\*: \$750

APPLICANT PHONE #  
Nobantu Akili 213.924.6054

zoning districts)

+ noticing fee

\*Due after application is deemed complete by staff

MAILING ADDRESS, CITY, STATE, ZIP

EMAIL ADDRESS  
nakili@j5ip.com

☐ SUBMITTAL PACKET – 4 Complete Packets (1 Unbound Original and 3 Copies) including:

- ☒ Application Form
- ☐ Detailed Written Project Description
- ☐ Site Plan
- ☐ Building Elevation Drawings and Floor Plans
- ☐ Special Use Permit Findings
- ☒ Master Plan Policy Checklist
- ☒ Applicant's Acknowledgment Statement
- ☒ Documentation of Taxes Paid-to-Date
- ☐ Project Impact Reports (Engineering)

PROPERTY OWNER PHONE #  
ARHC CTRCNV001 LLC

☐ CD or USB DRIVE with complete application in PDF

MAILING ADDRESS, CITY, STATE, ZIP  
PO BOX 71970, Phoenix, AZ 85050

Application Received and Reviewed By:

EMAIL ADDRESS

Submittal Deadline: Planning Commission application submittal schedule.

APPLICANT AGENT/REPRESENTATIVE PHONE #

Note: Submittals must be of sufficient clarity and detail for all departments to adequately review the request. Additional information may be required.

MAILING ADDRESS, CITY STATE, ZIP

EMAIL ADDRESS

Project's Assessor Parcel Number(s):

Street Address

001-201-30

775 FLEISCHMANN WAYCARSON CITY, NV 89703

Project's Master Plan Designation

Project's Current Zoning

Nearest Major Cross Street(s)

Public Regional

Mountain St.

Please provide a brief description of your proposed project and/or proposed use below. Provide additional pages to describe your request in more detail.  
Proposed wireless antennas

PROPERTY OWNER'S AFFIDAVIT

I, Micki Marston, being duly deposited, do hereby affirm that I am the record owner of the subject property, and that I have knowledge of, and I agree to, the filing of this application. #136

Signature Micki Marston

Address 401 Ryland St. Reno, NV

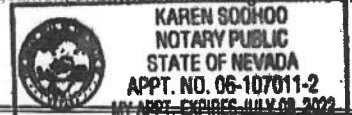
Date 10/19/21

Use additional page(s) if necessary for additional owners.

STATE OF NEVADA  
COUNTY WASHOE

On OCT 19, 2021, Micki Marston, personally appeared before me, a notary public, personally known (or proved) to me to be the person whose name is subscribed to the foregoing document and who acknowledged to me that he/she executed the foregoing document.

Notary Public Karen Soohoo



NOTE: If your project is located within the Historic District or airport area, it may need to be scheduled before the Historic Resources Commission or the Airport Authority in addition to being scheduled for review by the Planning Commission. Planning staff can help you make this determination.

If there is any additional information that would provide a clearer picture of your proposal that you would like to add for presentation to the Planning Commission, please be sure to include it in your detailed description.

Please type and sign the statement on the following page at the end of your findings response.

### **ACKNOWLEDGMENT OF APPLICANT**

I certify that the forgoing statements are true and correct to the best of my knowledge and belief. I agree to fully comply with all conditions as established by the Planning Commission. I am aware that this permit becomes null and void if the use is not initiated within one-year of the date of the Planning Commission's approval; and I understand that this permit may be revoked for violation of any of the conditions of approval. I further understand that approval of this application does not exempt me from all City code requirements.

*Nobantu Akili*

Applicant's Signature

Nobantu Akili

Print Name

10/06/2021

Date



1. Will be consistent with the objectives of the Master Plan elements.  
**This project is consistent with the objectives of the Master Plan elements.**

2. Will not be detrimental to the use, peaceful enjoyment, economic value, or development of surrounding properties or the general neighborhood; and is compatible with and preserves the character and integrity of adjacent development and neighborhoods or includes improvements or modifications either on-site or within the public right-of-way to mitigate development related to adverse impacts such as noise, vibrations, fumes, odors, dust, glare or physical activity.

**The proposed site will be on a rooftop shielded from public view. Additionally, an RF report has been included in the application packet demonstrating that noise, fumes, vibrations, odors, dust, and glare will not be an issue, nor will physical activity be affected in any way.**

3. Will have little or no detrimental effect on vehicular or pedestrian traffic.  
**As this project is a rooftop and all equipment will be housed on the rooftop and is not in a right of way this has no effect on vehicular or pedestrian traffic.**

4. Will not overburden existing public services and facilities, including schools, police and fire protection, water, sanitary sewer, public roads, storm drainage and other public improvements.

**This project has no effect on existing public facilities and will not affect drainage or any other vital public services.**

5. Meets the definition and specific standards set forth elsewhere in Carson City Municipal Code, Title 18 for such particular use and meets the purpose statement of that district.  
**This project meets the standards set forth in the Carson City Municipal Code, Title 18, and will not require any zoning changes or exemptions.**

6. Will not be detrimental to the public health, safety, convenience and welfare.  
**This project will be entirely out of reach to the public. In terms of welfare, increased wireless coverage will be a net positive for the public.**

7. Will not result in material damage or prejudice to other property in the vicinity, as a result of proposed mitigation measure.  
**This will not damage any property, and all precautions to keep disturbance due to construction to a minimum has been considered. The proposed rooftop equipment will also be painted the same color as the building, further reducing it's visual impact.**

# Master Plan Policy Checklist

## Special Use Permits & Major Project Reviews & Administrative Permits

### PURPOSE

The purpose of a development checklist is to provide a list of questions that address whether a development proposal is in conformance with the goals and objectives of the 2006 Carson City Master Plan that are related to non-residential and multi-family residential development. This checklist is designed for developers, staff, and decision-makers and is intended to be used as a guide only.

Development Name: \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Date of Review: \_\_\_\_\_

### DEVELOPMENT CHECKLIST

The following five themes are those themes that appear in the Carson City Master Plan and which reflect the community's vision at a broad policy level. Each theme looks at how a proposed development can help achieve the goals of the Carson City Master Plan. A check mark indicates that the proposed development meets the applicable Master Plan policy. The Policy Number is indicated at the end of each policy statement summary. Refer to the Comprehensive Master Plan for complete policy language.

### CHAPTER 3: A BALANCED LAND USE PATTERN



The Carson City Master Plan seeks to establish a balance of land uses within the community by providing employment opportunities, a diverse choice of housing, recreational opportunities, and retail services.

#### Is or does the proposed development:

- ☒ Meet the provisions of the Growth Management Ordinance (1.1d, Municipal Code 18.12)?
- ☒ Use sustainable building materials and construction techniques to promote water and energy conservation (1.1e, f)?
- ☐ Located in a priority infill development area (1.2a)?
- ☒ Provide pathway connections and easements consistent with the adopted Unified Pathways Master Plan and maintain access to adjacent public lands (1.4a)?

- ☒ Protect existing site features, as appropriate, including mature trees or other character-defining features (1.4c)?
- ☐ At adjacent county boundaries or adjacent to public lands, coordinated with the applicable agency with regards to compatibility, access and amenities (1.5a, b)?
- ☐ In identified Mixed-Use areas, promote mixed-use development patterns as appropriate for the surrounding context consistent with the land use descriptions of the applicable Mixed-Use designation, and meet the intent of the Mixed-Use Evaluation Criteria (2.1b, 2.2b, 2.3b, Land Use Districts, Appendix C)?
- ☒ Meet adopted standards (e.g. setbacks) for transitions between non-residential and residential zoning districts (2.1d)?
- ☒ Protect environmentally sensitive areas through proper setbacks, dedication, or other mechanisms (3.1b)?
- ☒ Sited outside the primary floodplain and away from geologic hazard areas or follows the required setbacks or other mitigation measures (3.3d, e)?
- ☒ Provide for levels of services (i.e. water, sewer, road improvements, sidewalks, etc.) consistent with the Land Use designation and adequate for the proposed development (Land Use table descriptions)?
- ☐ If located within an identified Specific Plan Area (SPA), meet the applicable policies of that SPA (Land Use Map, Chapter 8)?

#### CHAPTER 4: EQUITABLE DISTRIBUTION OF RECREATIONAL OPPORTUNITIES



The Carson City Master Plan seeks to continue providing a diverse range of park and recreational opportunities to include facilities and programming for all ages and varying interests to serve both existing and future neighborhoods.

##### Is or does the proposed development:

- ☐ Provide park facilities commensurate with the demand created and consistent with the City's adopted standards (4.1b)?
- ☐ Consistent with the Open Space Master Plan and Carson River Master Plan (4.3a)?

#### CHAPTER 5: ECONOMIC VITALITY



The Carson City Master Plan seeks to maintain its strong diversified economic base by promoting principles which focus on retaining and enhancing the strong employment base, include a broader range of retail services in targeted areas, and include the roles of technology, tourism, recreational amenities, and other economic strengths vital to a successful community.

##### Is or does the proposed development:

- ☐ Encourage a citywide housing mix consistent with the labor force and non-labor force populations (5.1j)
- ☐ Encourage the development of regional retail centers (5.2a)
- ☐ Encourage reuse or redevelopment of underused retail spaces (5.2b)?
- ☐ Support heritage tourism activities, particularly those associated with historic resources, cultural institutions and the State Capitol (5.4a)?
- ☐ Promote revitalization of the Downtown core (5.6a)?
- ☐ Incorporate additional housing in and around Downtown, including lofts, condominiums, duplexes, live-work units (5.6c)?

## CHAPTER 6: LIVABLE NEIGHBORHOODS AND ACTIVITY CENTERS



The Carson City Master Plan seeks to promote safe, attractive and diverse neighborhoods, compact mixed-use activity centers, and a vibrant, pedestrian-friendly Downtown.

### Is or does the proposed development:

- ☒ Use durable, long-lasting building materials (6.1a)?
- ☐ Promote variety and visual interest through the incorporation of varied building styles and colors, garage orientation and other features (6.1b)?
- ☐ Provide variety and visual interest through the incorporation of well-articulated building facades, clearly identified entrances and pedestrian connections, landscaping and other features consistent with the Development Standards (6.1c)?
- ☒ Provide appropriate height, density and setback transitions and connectivity to surrounding development to ensure compatibility with surrounding development for infill projects or adjacent to existing rural neighborhoods (6.2a, 9.3b 9.4a)?
- ☐ If located in an identified Mixed-Use Activity Center area, contain the appropriate mix, size and density of land uses consistent with the Mixed-Use district policies (7.1a, b)?
- ☐ If located Downtown:
  - ☐ Integrate an appropriate mix and density of uses (8.1a, e)?
  - ☐ Include buildings at the appropriate scale for the applicable Downtown Character Area (8.1b)?
  - ☐ Incorporate appropriate public spaces, plazas and other amenities (8.1d)?
- ☐ Incorporate a mix of housing models and densities appropriate for the project location and size (9.1a)?

## CHAPTER 7: A CONNECTED CITY



The Carson City Master Plan seeks promote a sense of community by linking its many neighborhoods, employment areas, activity centers, parks, recreational

amenities and schools with an extensive system of interconnected roadways, multi-use pathways, bicycle facilities, and sidewalks.

**Is or does the proposed development:**

- ☐ Promote transit-supportive development patterns (e.g. mixed-use, pedestrian-oriented, higher density) along major travel corridors to facilitate future transit (11.2b)?
- ☐ Maintain and enhance roadway connections and networks consistent with the Transportation Master Plan (11.2c)?
- ☐ Provide appropriate pathways through the development and to surrounding lands, including parks and public lands, consistent with the Unified Pathways Master Plan (12.1a, c)?



11/29/2021

Jurisdiction: Carson City

Departments: Planning Department

**Re: SCRN000017B ,775 Fleischmann Way, Carson City, NV 89703**

To whom it may concern,

On behalf of DISH Wireless L.L.C. ("DISH Wireless"), we are submitting an Eligible Facilities Request ("EFR") to modify an existing support structure pursuant to Section 6409(a) of the Middle-Class Tax Relief and Job Creation Act of 2012 ("Spectrum Act") and the rules of the Federal Communications Commission ("FCC"). See Pub. Law No. 112-96, 126 Stat. 156 (2012); 47 C.F.R. §1.6100.

Specifically, as it moves to deploy a new 5G broadband network:

**SECTOR SCOPE OF WORK:**

- **INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR, 3 TOTAL) INSTALL (3) PROPOSED FRP ANTENNA ENCLOSURES (1 PER SECTOR, 3 TOTAL) INSTALL PROPOSED JUMPERS**
- **INSTALL (6) PROPOSED RRHs (2 PER SECTOR, 6 TOTAL)**
- **INSTALL (3) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP) (1 PER SECTOR, 3 TOTAL)**
- **INSTALL (3) PROPOSED HYBRID CABLE INSTALL PROPOSED CABLE TRAY/CONDUIT MOUNTED ON ROOFTOP EQUIPMENT**

**SCOPE OF WORK (INSIDE PENTHOUSE BUILDING):**

- **INSTALL PROPOSED CONDUIT MOUNTED INSIDE PENTHOUSE**
- **INSTALL (1) PROPOSED EQUIPMENT CABINET**
- **INSTALL (1) PROPOSED NEMA 3 TELCO-FIBER BOX**
- **INSTALL (1) PROPOSED GPS ANTENNA INSTALL (1) PPC CABINET**
- **INSTALL (1) SUB METER**
- **INSTALL (1) 3'X8' CONCRETE HOUSING PAD INSIDE EXISTING PENTHOUSE TO MATCH EXISTING**

This project will help support the 5G connectivity needs of residents, businesses, and first responders. DISH Wireless looks forward to working cooperatively with you to advance these important efforts in your community.

This Request is governed by Section 6409(a) of Spectrum Act which, as you may know,



provides that state and local governments “may not deny, and shall approve” any EFR to modify an existing wireless tower or base station that does not “substantially change the physical dimensions of such tower or base station.” See Spectrum Act § 6409(a)(1), 126 Stat. at 232. Under Section 6409, such modifications include the

## dish wireless

collocation, removal, or replacement of transmission equipment. See *id.* § 6409(a)(2), 126 Stat. at 232-33. Under the FCC’s rule implementing Section 6409(a), an existing base station is a structure that currently houses or supports an approved antenna, transceiver or other associated equipment “even if the structure was not built for the sole or primary purpose of providing such support.” 47 C.F.R. § 1.6100(b)(1), (b)(5).

Similarly, the list of equipment that will be installed as part of this Request qualifies as “transmission equipment,” which the FCC defines as “equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable.” See 47 C.F.R. § 1.6100(b)(8).

The FCC has determined that a modification is not a substantial change, and therefore is an EFR that shall be approved under the Spectrum Act, as long as it does not fall within any of the following six criteria (47 C.F.R. § 1.6100(b)(7)):

1. For towers other than towers in the public rights-of-way, it increases the height of the tower by more than 10% or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater; for other eligible support structures, it increases the height of the structure by more than 10% or more than ten feet, whichever is greater;
2. For towers other than towers in the public rights-of-way, it involves adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater; for other eligible support structures, it involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure by more than six feet;
3. For any eligible support structure, it involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for towers in the public rights-of-way and base stations, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure;
4. It entails any excavation or deployment outside the current site;

5. It would defeat the concealment elements of the eligible support structure; or
6. It does not comply with conditions associated with the siting approval of the construction or modification of the eligible support structure or base station equipment, provided however that this limitation does not apply to any

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modification that is non-compliant only in a manner that would not exceed the thresholds identified in criteria 1-4 above.

Pursuant to Section 1.6100(c) of the FCC's rules, which provides that jurisdictions may require documentation or information "only to the extent reasonably related to determining whether the request meets the requirements" of the FCC rule, DISH Wireless provides the following information to demonstrate that the proposed Request does not constitute a substantial change under the criteria above because it:

1. *Does not involve an increase in height in excess of the limits in 47 C.F.R. § 1.6100(b)(7)(i).*

**Details:** No height increase, see drawings page A-5 for elevations

*Does not involve an increase in width in excess of the limits in 47 C.F.R. § 1.6100(b)(7)(ii).*

**Details:** No width increase, utilizing previous existing structure, see page A-6

2. *Does not involve installation of new equipment cabinets in excess of the limits in 47 C.F.R. § 1.6100(b)(7)(iii).*

**Details:** (1) Cabinet to be installed, see page A-2

3. *Does not involve any excavation or deployment outside the current site.*

**Details:** N/A, project is a rooftop installation.

*Would not defeat any concealment elements of the eligible support structure.*

**Details:** N/A.

4. *Complies with any prior conditions, except for any non-compliance due to exceeding the thresholds in criteria 1-4 above.*

**Details:** There are no prior conditions of approval that would render the modification to be non-compliant, aside from any conditions that would be preempted by the first four "substantial change" thresholds.

Under the FCC's rule, the submission of this request for EFR approval initiates a 60-day shot clock to review and approve the application. *Id.* § 1.6100(c)(2). If that



time passes without action, "the request shall be deemed granted." *Id.* § 1.6100(c)(4).

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3

**dish wireless**

DISH Wireless is committed to working cooperatively with you to process this request in a timely and efficient manner. [We also understand that these are unprecedented times, and welcome the opportunity to answer any questions or concerns you may have to facilitate your review process. We look forward to developing a long-term collaborative working relationship with you.

Please do not hesitate to contact me if you have any questions or need any other information.

Respectfully submitted,

**Nobantu Akili**  
Site Acquisition Specialist  
J5 Infrastructure Partners  
( Mobile: 213.924.6054 )  
\*nakili@j5ip.com  
[www.j5infrastructurepartners.com](http://www.j5infrastructurepartners.com)

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**Federal Communications Commission**  
Wireless Telecommunications Bureau

**RADIO STATION AUTHORIZATION**

LICENSEE: PARKERB.COM WIRELESS L.L.C.

ATTN: JEFFREY BLUM  
PARKERB.COM WIRELESS L.L.C.  
PO BOX 6663  
ENGELWOOD, CO 80155

<b>Call Sign</b> WQZM475	<b>File Number</b>
<b>Radio Service</b> WT - 600 MHz Band	

**FCC Registration Number (FRN):** 0025268459

<b>Grant Date</b> 06-14-2017	<b>Effective Date</b> 09-11-2020	<b>Expiration Date</b> 06-14-2029	<b>Print Date</b>
<b>Market Number</b> PEA076	<b>Channel Block</b> F	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Reno, NV			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b> 06-14-2025	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 for further information):

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the UL homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: PARKERB.COM WIRELESS L.L.C.

Call Sign: WQZM475

File Number:

Print Date:

Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building, deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at <https://www.3gpp.org/release-15>, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. With respect to this 600 MHz Band license, licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2025 to at least seventy (75) percent of the population in the license area. If licensee fails to establish that it meets this Final Buildout Requirement with respect to this 600 MHz Band license, this authorization shall terminate automatically without Commission action. See § 27.14(t)(4).

Special Condition 1c (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet the conditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Special Condition 1d (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Partial Economic Area of this license more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

**Licensee Name:** PARKERB.COM WIRELESS L.L.C.

**Call Sign:** WQZM475

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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**Federal Communications Commission**  
Wireless Telecommunications Bureau

**RADIO STATION AUTHORIZATION**

LICENSEE: AMERICAN H BLOCK WIRELESS L.L.C.

ATTN: OFFICE GEN. COUNSEL, LEGAL DEPT.  
AMERICAN H BLOCK WIRELESS L.L.C.  
PO BOX 6663  
ENGLEWOOD, CO 80155-6663

<b>Call Sign</b> WQTX350	<b>File Number</b>
<b>Radio Service</b> AH - AWS-H Block (at 1915-1920 MHz and 1995-2000 MHz)	

FCC Registration Number (FRN): 0023125057

CC Registration Number (114): 00			
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**Waivers/Conditions:**

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 for further information):

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: AMERICAN H BLOCK WIRELESS L.L.C.

Call Sign: WQTX350

File Number:

Print Date:

Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building, deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at <https://www.3gpp.org/release-15>, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. With respect to this H Block license, licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2023 to at least seventy (75) percent of the population in the license area. If licensee fails to establish that it meets this Final Buildout Requirement with respect to this H Block license, this authorization shall terminate automatically without Commission action. See § 27.14(r)(3).

Special Condition 1c (9/11/2020): Contingent extension: The Final Buildout Requirement in special condition 1b shall be extended to 6/14/2025 if licensee establishes that it is offering 5G Broadband Service with respect to its AWS H Block licenses to 50% or more of the U.S. population by 6/14/2023.

Special Condition 1d (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet the conditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

**Licensee Name:** AMERICAN H BLOCK WIRELESS L.L.C.

**Call Sign:** WQTX350

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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# Federal Communications Commission

## Wireless Telecommunications Bureau

### RADIO STATION AUTHORIZATION

LICENSEE: MANIFEST WIRELESS L.L.C.

ATTN: ALISON MINEA  
MANIFEST WIRELESS L.L.C.  
1110 VERMONT AVENUE, NW, SUITE 750  
WASHINGTON, DC 20005

<b>Call Sign</b> WQJZ293	<b>File Number</b>
<b>Radio Service</b> WY - 700 MHz Lower Band (Blocks A, B & E)	

**FCC Registration Number (FRN):** 0017173121

Grant Date 02-20-2009	Effective Date 09-11-2020	Expiration Date 06-14-2023	Print Date
Market Number BEA151	Channel Block E	Sub-Market Designator 0	
Market Name Reno, NV-CA			
1st Build-out Date 03-07-2017	2nd Build-out Date 06-14-2023	3rd Build-out Date	4th Build-out Date

**Waivers/Conditions:**

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.



Licensee Name: MANIFEST WIRELESS L.L.C.

Call Sign: WQJZ293

File Number:

Print Date:

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 for further information):

Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building, deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at <https://www.3gpp.org/release-15>, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. Licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2023 to at least seventy (70) percent of the population in the license area of this license. If licensee fails to establish that it meets this Final Buildout Requirement in the license area of this license, its authorization for unserved areas shall terminate automatically without Commission action. See Public Notice, DA 19-77 (licensee keeps the areas of the license that it serves and the remaining unserved areas are returned to FCC's inventory for relicensing).

Special Condition 1c (9/11/2020): Contingent extension: The Final Buildout Requirement in Special Condition 1b shall be extended to 6/14/2025 if licensee establishes that it is offering 5G Broadband Service with respect to its Lower 700 MHz E Block licenses to 50% or more of the U.S. population covered by DISH's Lower 700 MHz E Block licenses by 6/14/2023.

Special Condition 1d (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet the conditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and automatic license terminations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Licensee Name: MANIFEST WIRELESS L.L.C.

Call Sign: WQJZ293

File Number:

Print Date:

**700 MHz Relicensed Area Information:**

**Market**

**Market Name**

**Buildout Deadline**

**Buildout Notification**

**Status**

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# Federal Communications Commission

## Wireless Telecommunications Bureau

### RADIO STATION AUTHORIZATION

LICENSEE: GAMMA ACQUISITION L.L.C.

ATTN: ALISON MINEA  
GAMMA ACQUISITION L.L.C.  
1110 VERMONT AVENUE NW SUITE 750  
WASHINGTON, DC 20005

<b>Call Sign</b> T060430151	<b>File Number</b>
<b>Radio Service</b> AD - AWS-4 (2000-2020 MHz and 2180-2200 MHz)	

FCC Registration Number (FRN): 0021004817

CC Registration Number (1-17): 000			
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#### Waivers/Conditions:

##### Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: GAMMA ACQUISITION L.L.C.

Call Sign: T060430151

File Number:

Print Date:

Special Condition 1: This license document as first issued on March 7, 2013, reflects the Order of Modification and Authorization (DA 13-231) to existing Mobile Satellite Service ("MSS") call sign E060430 to add Part 27 rights and obligations for Advanced Wireless Service-4 ("AWS-4") terrestrial operating authority with all of the attendant rights, limitations, and obligations associated with the AWS-4 service rules adopted in WT Docket No. 12-70 (FCC 12-151), and any subsequent orders. The license document issued on March 7, 2013, is not a separate authorization in and of itself. The parameters reflected in the International Bureau Filing System for the MSS authorization of the license (call sign E060430) together with the parameters reflected in the Universal Licensing System for the standalone terrestrial authorization of the license (call sign T060430001 - T060430176 derivatives) as of March 7, 2013 constitute the whole of the modified license. Except as otherwise ordered, a licensee of AWS-4 operating authority is permitted to partition, disaggregate, and lease AWS-4 spectrum as provided under the FCC's rules. See, e.g., FCC 19-103; 47 CFR Parts 1, 27. The partition, disaggregation, or lease of AWS-4 spectrum does not encompass the MSS authorization.

Special Condition 2: A licensee of AWS-4 operating authority shall comply with the specific Global Positioning System ("GPS") protection limits set forth in the September 27, 2012 letter agreement between DISH Network Corporation (parent corp. of the AWS-4 licensee under this license as issued on March 7, 2013) and the U.S. GPS Industry Council, as detailed in FCC Order 12-151. See Service Rules for Advanced Wireless Services in the 2000-2020 MHz and 2180-2200 MHz Bands, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142, Report and Order and Order of Proposed Modification, 27 FCC Rcd 16102, 16151-53, at Paras. 118-122 (2012) (AWS-4 Report and Order), citing Letter from Jeffrey H. Blum, Deputy General Counsel, DISH Network Corporation, and F. Michael Swiek, Executive Director, The U.S. GPS Industry Council, to Marlene H. Dortch, Sec'y, Federal Communications Commission, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142 (filed Sept. 27, 2012) (a copy of this letter is attached). Further, as detailed in the AWS-4 Report and Order, an AWS-4 license shall remain subject to this Special Condition 2 in the event that the licensee assigns or otherwise transfers the license to a successor-in-interest or assignee. Id. at 16152-53, Para. 121.

Special Condition 3A: A licensee of AWS-4 operating authority shall protect Federal operations in the 2200-2290 MHz band as specified in Section 27.1134(e) of the Commission's rules and in FCC Order 12-151. 47 C.F.R. § 27.1134(e); Service Rules for Advanced Wireless Services in the 2000-2020 MHz and 2180-2200 MHz Bands, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142, Report and Order and Order of Proposed Modification, 27 FCC Rcd 16102, 16148-51, at Paras. 107-117 (2012) (AWS-4 Report and Order).

Licensee Name: GAMMA ACQUISITION L.L.C.

Call Sign: T060430151

File Number:

Print Date:

Special Condition 3B: In December 2012, DISH Network Corporation (parent corp. of the AWS-4 licensee under this license as issued on March 7, 2013) and federal users of the 2200-2290 MHz band entered into an operator-to-operator agreement. Letter from Karl B. Nebbia, Associate Administrator, Office of Spectrum Management, National Telecommunications and Information Administration, to Julius Knapp, Chief, Office of Engineering and Technology, Federal Communications Commission, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142, at Attachment ("Operator-to-Operator Agreement between New DBSD Satellite Services G.P. and Gamma Acquisition L.L.C. and United States Federal Government Agencies Operating Earth Stations and/or Aeronautical Mobile Telemetry (AMT) Stations in the 2200-2290 MHz Band") (Dec. 11, 2012) (a copy of this letter is attached). As detailed in FCC Order 12-151, a licensee of AWS-4 operating authority shall comply with this agreement with regard to the permissible AWS-4 emissions into the 2200-2290 MHz band and/or the maximum actual AWS-4 emissions to be received at the specified sites of Federal operations in the 2200-2290 MHz band. AWS-4 Report and Order, 27 FCC Rcd at 16148-51, Paras. 107-117.

Special Condition 3C: As detailed in Section 27.1134(e)(2) of the Commission's rules and in FCC Order 12-151, a licensee of AWS-4 operating authority who is a party to a private contractual agreement between it and a Federal government entity(ies) operating in the 2200-2290 MHz band must maintain a copy of the agreement in its station files and disclose it, upon request, to prospective AWS-4 assignees, transferees, or spectrum lessees, to Federal operators, and to the Commission. 47 C.F.R. § 27.1134(e)(2); AWS-4 Report and Order, 27 FCC Rcd at 16149-50, at Para. 112.

Special Condition 4A: This license is subject to the terms of the Memorandum Opinion and Order, DA 13-2409, in WT Docket No. 13-225.

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Special Condition 4B: On June 1, 2016, DISH Network Corporation, parent corp. of the AWS-4 licensee under this license (as issued on March 7, 2013, and to date), stated unequivocally its election applicable to all AWS-4 licenses of terrestrial downlink-not terrestrial uplink-operations at 2000-2020 MHz. See WT Docket No. 13-225, Letter from Jeffrey H. Blum, Senior Vice President & Deputy General Counsel, DISH Network Corporation, to Marlene H. Dortch, Secretary, FCC (filed Jun. 1, 2016). See also modification applications granted 6/7/2016 (Lead Call Sign T060430001/File No# 0007289841). This one-time election is binding on all AWS-4 licensees and licenses including any AWS-4 licenses issued subsequently. Use of the Lower AWS-4 Band for terrestrial downlink operations is subject to any rules that are generally applicable to AWS downlink operations except to the extent expressly waived by Memorandum Opinion and Order, DA 13-2409, in WT Docket No. 13-225. By way of reference and not limitation, see Memorandum Opinion and Order, DA 13-2409, at para. 25 for list of rules waived for downlink operations, and id. at para. 47 for list of requirements for downlink operations.

Licensee Name: GAMMA ACQUISITION L.L.C.

Call Sign: T060430151

File Number:

Print Date:

Special Condition 5 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 for further information):

Special Condition 5a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building, deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at <https://www.3gpp.org/release-15>, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 5b (9/11/2020): Final Buildout Requirement. Licensee shall provide terrestrial 5G Broadband Service coverage and offer terrestrial 5G Broadband Service by 6/14/2023 to at least seventy (70) percent of the population in the license area in the 2000-2020 MHz and 2180-2200 MHz bands. If licensee fails to establish that it meets this Final Buildout Requirement in the license area in the 2000-2020 MHz and 2180-2200 MHz bands, its authorization for this license area shall terminate automatically without Commission action. Failure to meet this Final Buildout Requirement in an EA shall also result in the MSS protection rule in 47 CFR § 27.1136 no longer applying in this license area. See generally 47 CFR § 27.14(q)(2),(4)-(6).

Special Condition 5c (9/11/2020): Contingent extension: The Final Buildout Requirement in special condition 5b shall be extended to 6/14/2025 if licensee establishes that it is offering 5G Broadband Service with respect to its AWS-4 licenses in the 2000-2020 MHz and 2180-2200 MHz bands to 50% or more of the U.S. population by 6/14/2023.

Special condition 5d (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet the conditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

**Licensee Name:** GAMMA ACQUISITION L.L.C.

**Call Sign:** T060430151

**File Number:**

**Print Date:**

Special Condition 5e (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Economic Area of this license more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

Reference Copy

**Licensee Name:** GAMMA ACQUISITION L.L.C.

**Call Sign:** T060430151

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

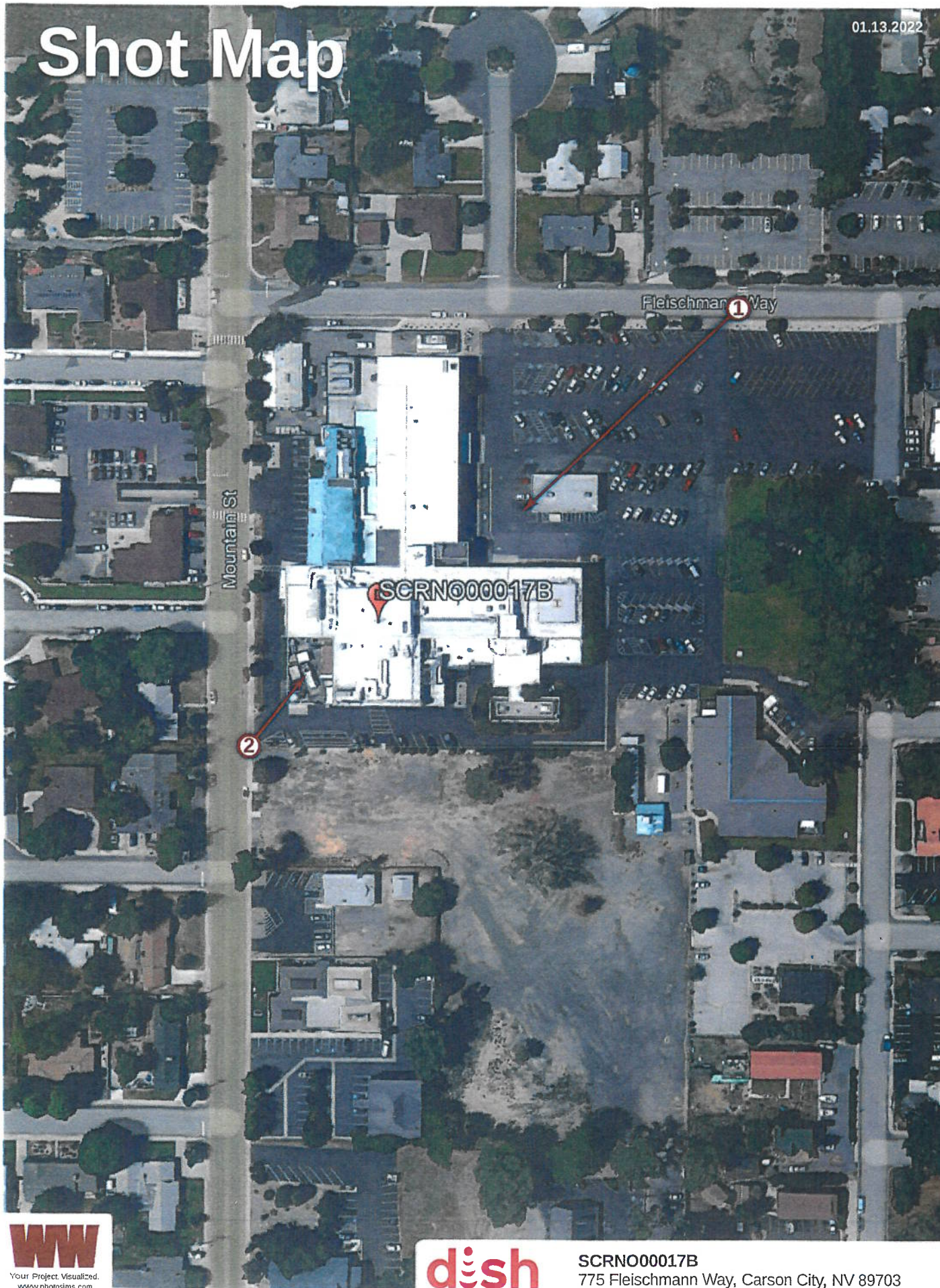
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Reference Copy



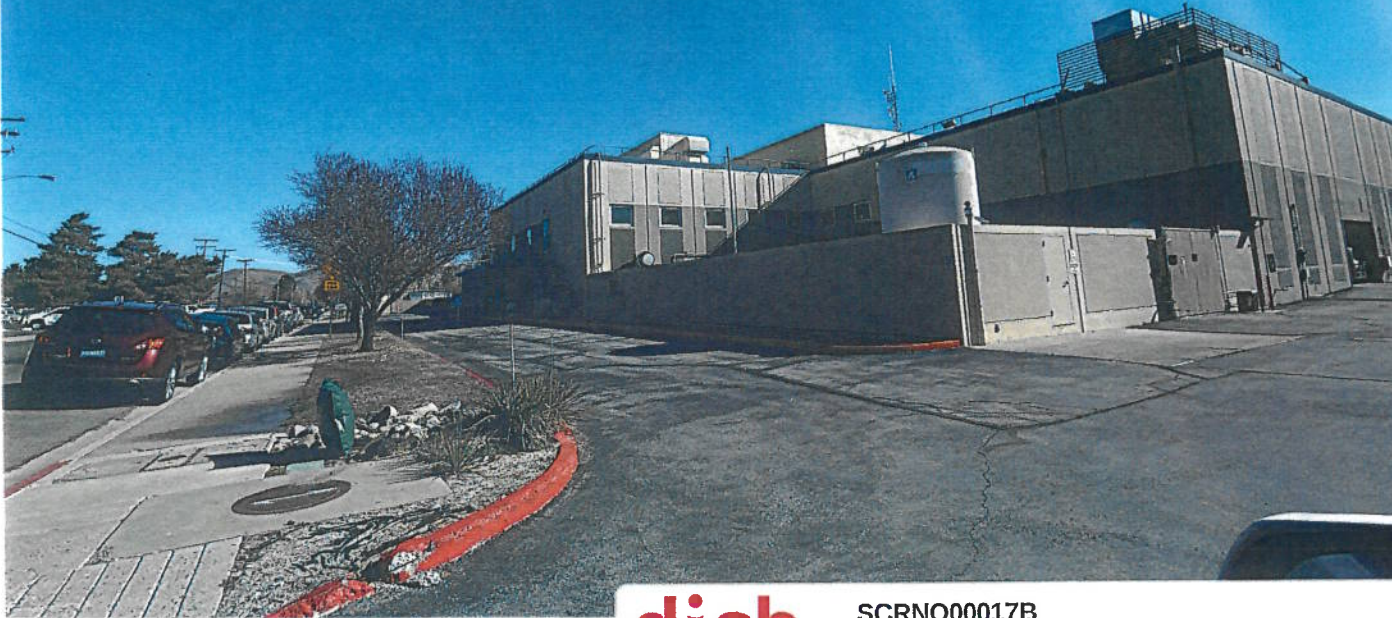
# Shot Map

01.13.2022



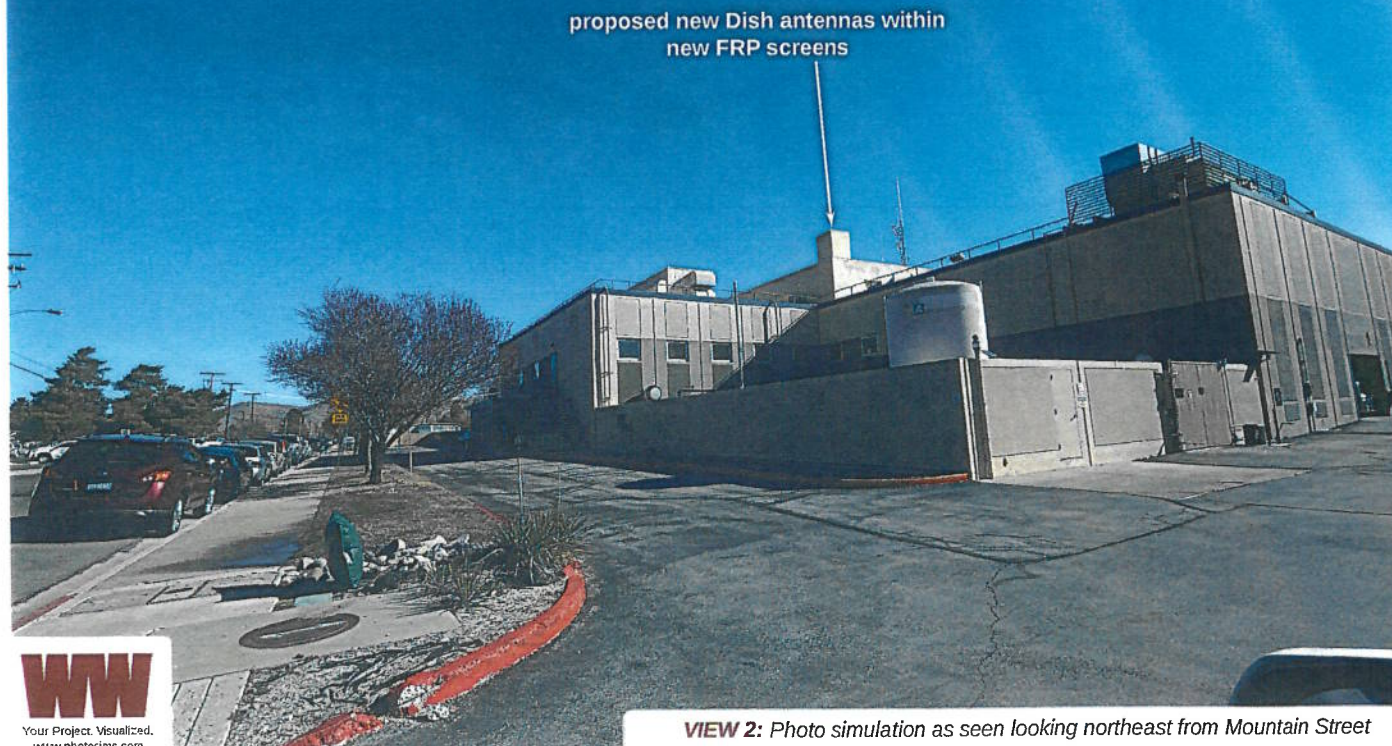


# Existing



SCRNO00017B  
775 Fleischmann Way, Carson City, NV 89703

# Proposed



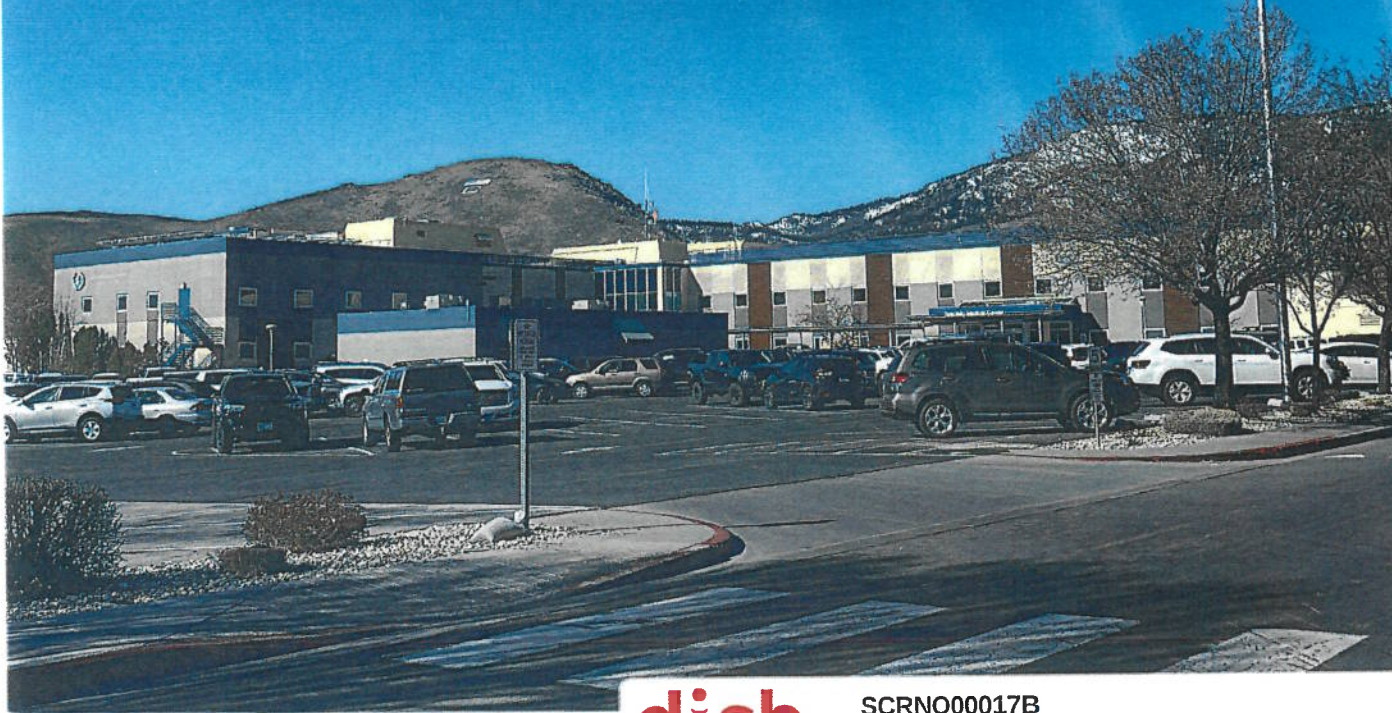
Your Project. Visualized.  
www.photosims.com

**VIEW 2:** Photo simulation as seen looking northeast from Mountain Street



Existing

01.13.2022



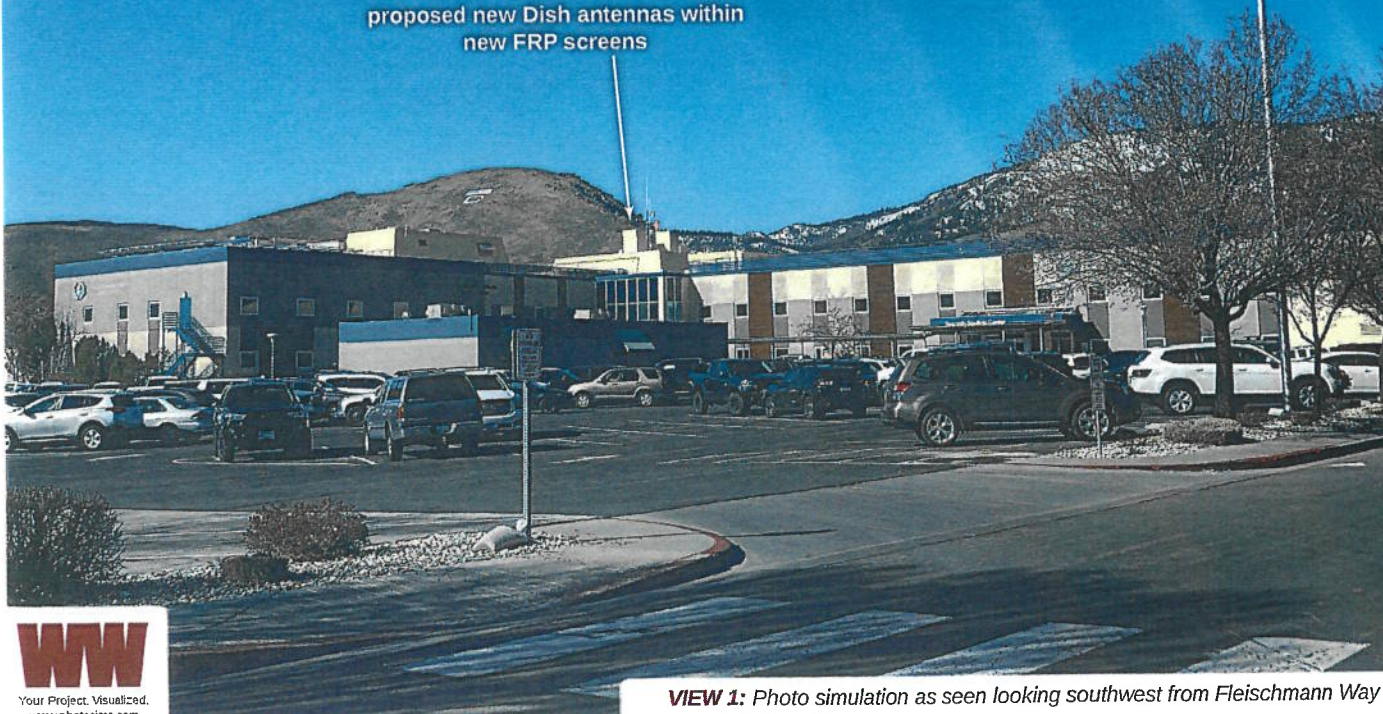
dish

SCRNO00017B

775 Fleischmann Way, Carson City, NV 89703

Proposed

proposed new Dish antennas within  
new FRP screens



**WW**  
Your Project. Visualized.  
www.photosims.com

**VIEW 1:** Photo simulation as seen looking southwest from Fleischmann Way



T-1

# NOTES:

APN: 001-201-30  
OWNER: ARHC CTCRCNV001 LLC  
THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

THE EASEMENTS (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN PLOTTED BASED SOLELY ON INFORMATION CONTAINED IN THE TITLE REPORT BY: XXXX XXXX XXXX INSURANCE COMPANY, FILE NO. XXXXXX, DATED XXXX XX, XXXX. WITHIN SAID TITLE REPORT THERE ARE XXXX (XX) EXCEPTIONS LISTED, XXXX (XX) OF WHICH IS AN EASEMENT AND XXXX (XX) OF WHICH CAN NOT BE PLOTTED.

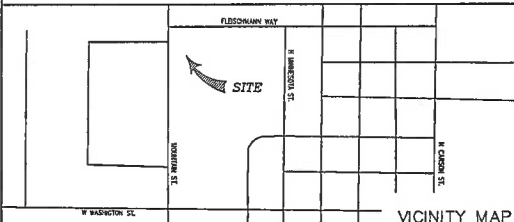
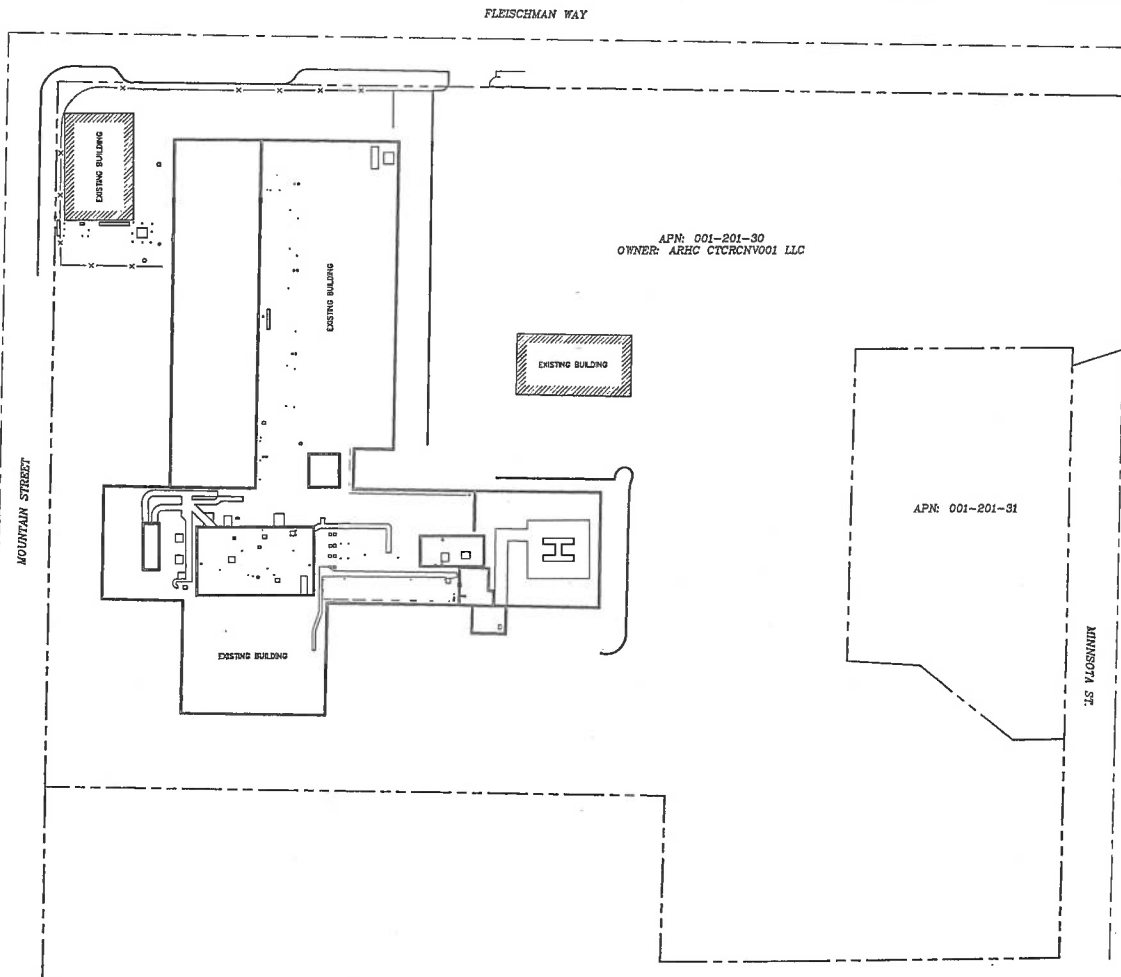
THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 320001, PANEL NO. 00926, DATED DECEMBER 22, 2018 SHOWS THAT THE LOCATION OF THIS SITE FALLS WITHIN ZONE "X", AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

THE LATITUDE AND LONGITUDE AT THE LOCATION AS SHOWN WAS DETERMINED BY GPS OBSERVATIONS.

LAT. 39° 10' 14.76" N. NAD 83  
LONG. -119° 46' 20.32" W. NAD 83  
ELEV. 4717.1' NAVD 88 (BASIS OF DRAWING)

The information shown above meets or exceeds the requirements set forth in FAA order 8260.19D for 1-A accuracy (± 20' horizontally and ± 3' vertically). The horizontal datum (coordinates) are expressed as degrees, minutes and seconds, to the nearest hundredth of a second. The vertical datum (heights) are expressed in feet and decimals thereof and are determined to the nearest 0.1 foot.



PREPARED FOR:

**15 INFRASTRUCTURE PARTNERS**

PREPARED BY:

**SMITHCO SURVEYING ENGINEERING**

P.O. BOX 8188 RANCHO CALIFORNIA, CA 92506  
PHONES: (949) 354-1337 FAX: (949) 354-1339

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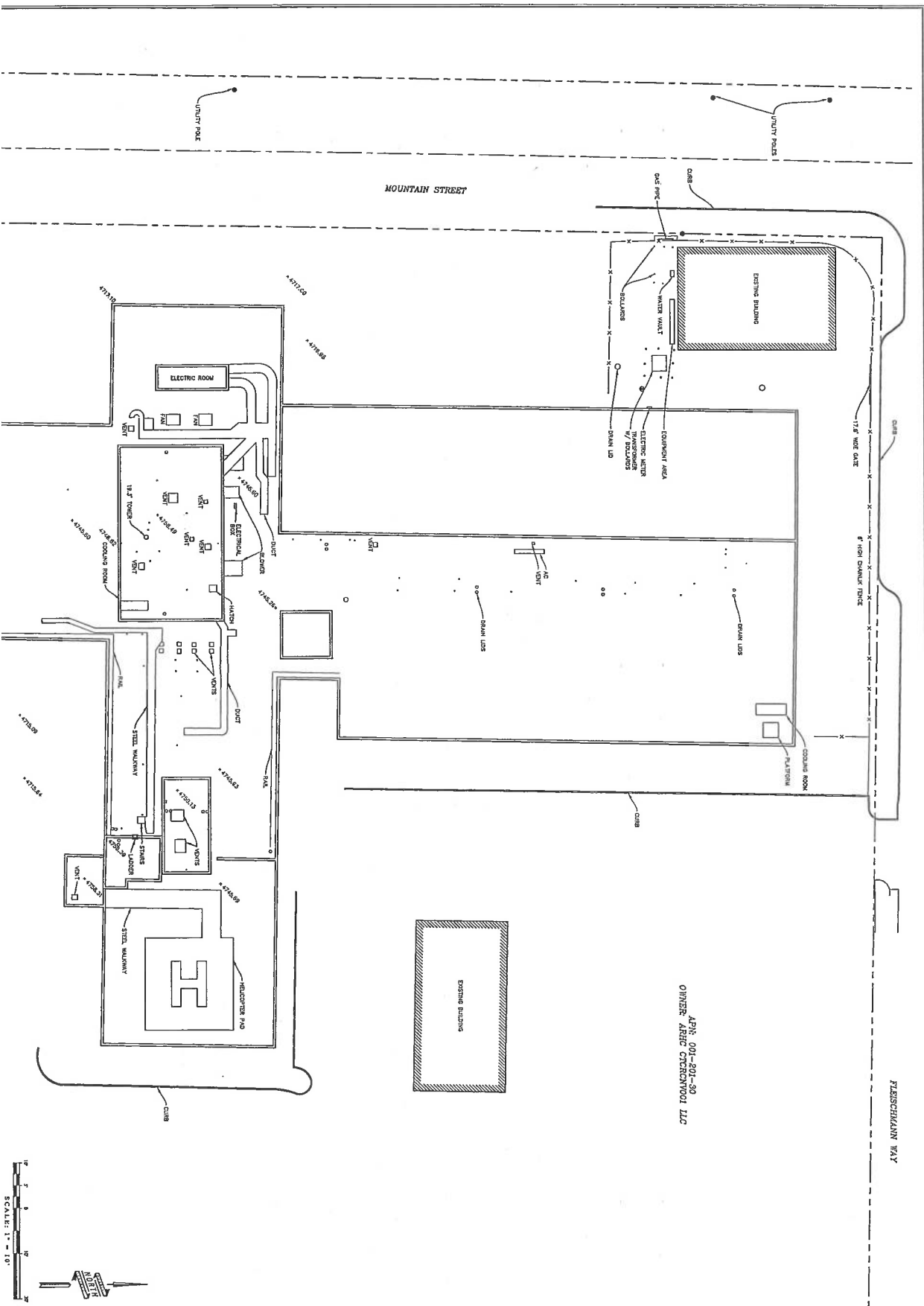
PROFESSIONAL SEAL:

REVISION			
#	DATE	DESCRIPTION	BY
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3			
4			
5			
6			
7			
8			

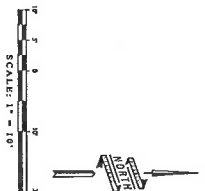
SMITHCO JOB NO. 18-1188  
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SCRNO00017B

755 FLEISCHMANN WAY  
CARSON CITY, NV 89703  
BULLFROG COUNTY

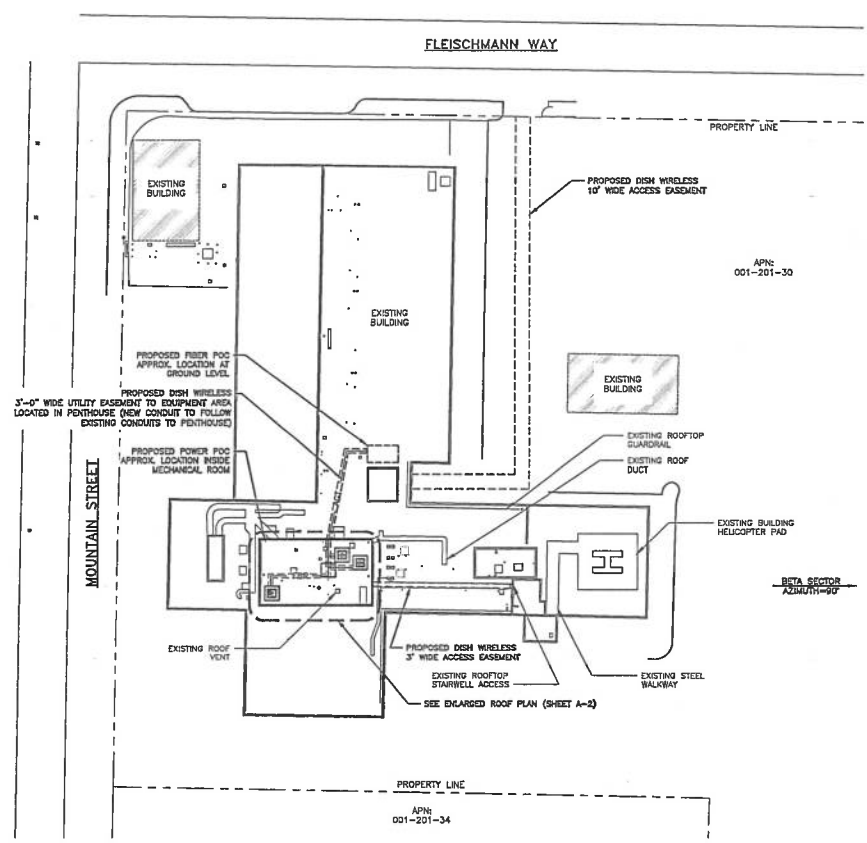


APN: 001-201-80  
OWNER: ARHC CTRONVOD LLC



<p>755 FLEISCHMANN WAY CARSON CITY, NV 89703 BULLFROG COUNTY</p>		<p>SCRNO00017B</p>																																												
<p><b>SMITHCO</b> SURVEYING &amp; ENGINEERING</p>																																														
<p>PROVIDED BY: [Signature]</p>																																														
<p>FOR INFORMATION ONLY: THIS PLAN WAS PREPARED BY SMITHCO SURVEYING &amp; ENGINEERING, INC. FOR THE PROJECT OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE DATA AND THE RESULTS OF THE SURVEY. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT.</p>																																														
<p>REVISION</p> <table border="1"> <thead> <tr> <th>#</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>05/12/21</td> <td>PRELIMINARY</td> <td>JA</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			#	DATE	DESCRIPTION	BY	1	05/12/21	PRELIMINARY	JA	2				3				4				5				6				7				8				9				10			
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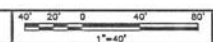
DATA SECTOR  
ADJUTANT-20



DATA SECTOR  
ADJUTANT-20



OVERALL SITE PLAN



5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120



23 MAUCHLY, SUITE 110  
IRVINE, CALIFORNIA 92618



Op's Manager: Sean Carpenter  
Phone: 425.246.1060  
Email: Sean.Carpenter@5GILC.net

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DRAWN BY: CHECKED BY: APPROVED BY:

JM SMR

RFDS REV #:

### ZONING DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	7/18/2021	80% 2D
1	8/26/2021	80% 2D - REVISED
2	9/14/2021	100% 2D
3	10/22/2021	100% 2D - REVISED
4	11/12/2021	100% 2D - REVISED
5	11/18/2021	100% 2D - REVISED

JS PROJECT NUMBER  
P-053190

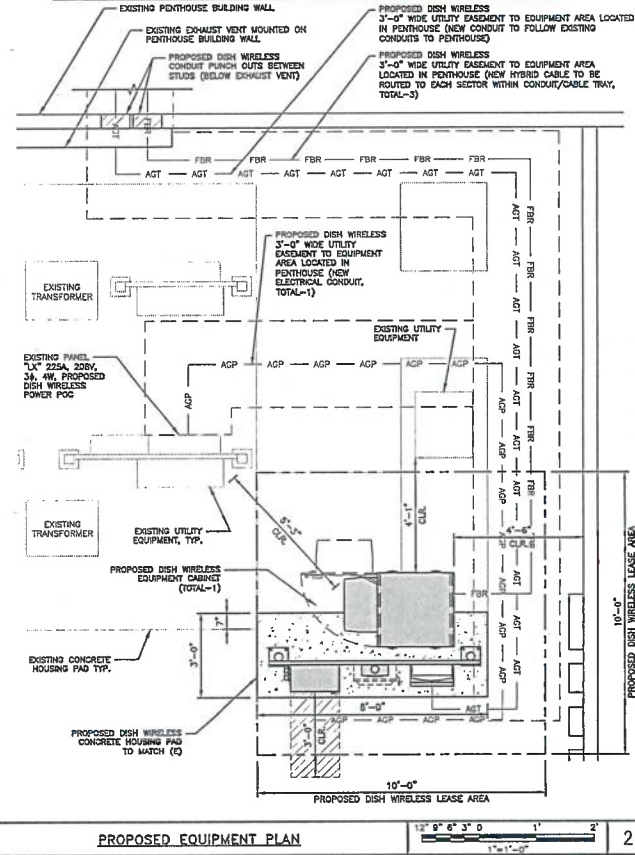
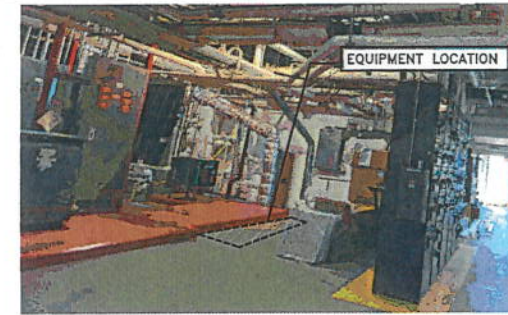
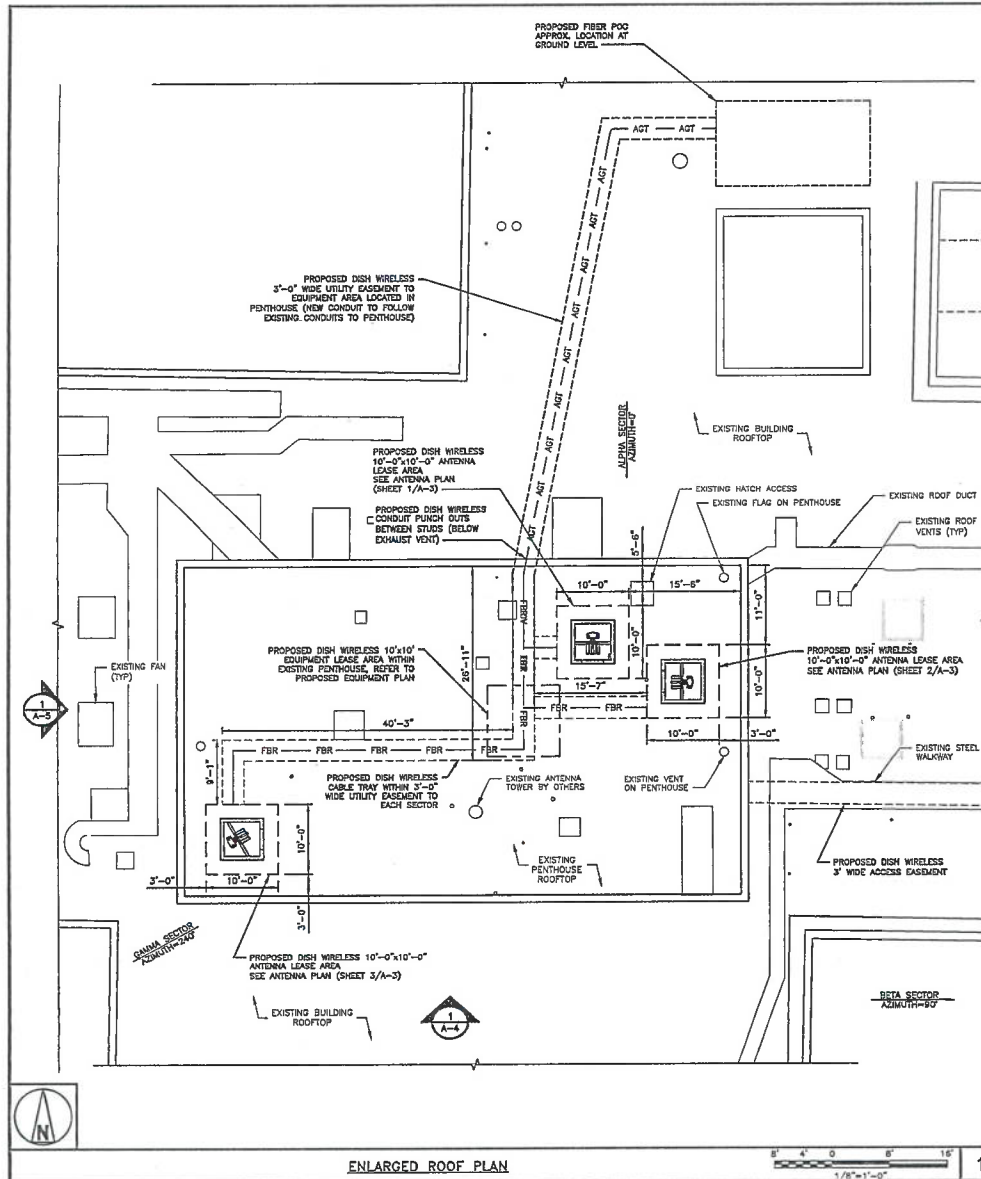
DISH WIRELESS L.L.C.  
PROJECT INFORMATION

SCRN000017B  
775 FLEISCHMANN WAY  
CARSON CITY, NV 89703

SHEET TITLE  
OVERALL  
SITE PLAN

SHEET NUMBER

A-1



**dish**  
wireless.

5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120

**INFRASTRUCTURE**  
23 MAULCHLY, SUITE 110  
IRVINE, CALIFORNIA 92618

**5G**

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J5 PROJECT NUMBER  
P-053190

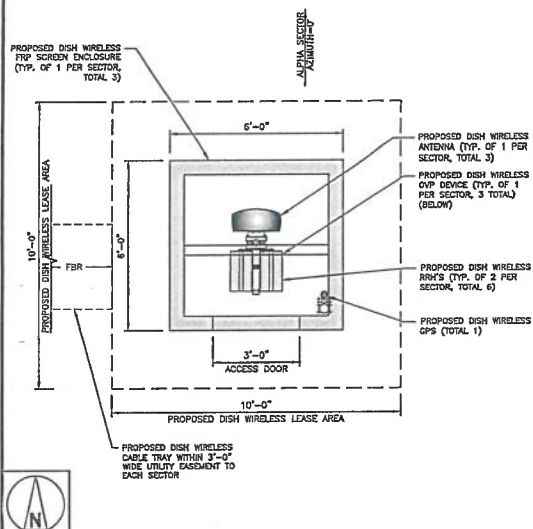
DISH WIRELESS L.L.C.  
PROJECT INFORMATION  
SCRN000017B  
775 FLEISCHMANN WAY  
CARSON CITY, NV 89703

SHEET TITLE  
ENLARGED ROOF PLAN  
& EQUIPMENT PLAN

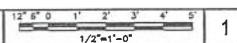
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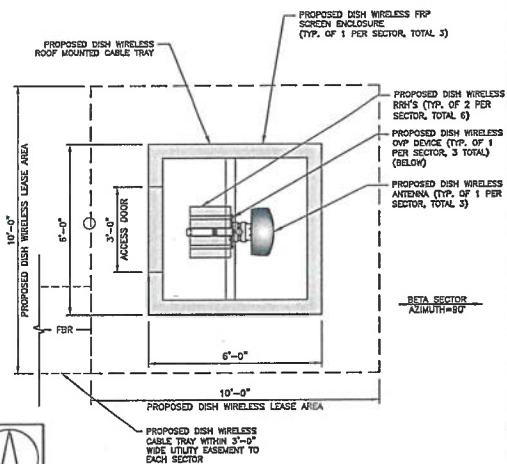




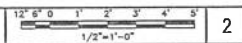
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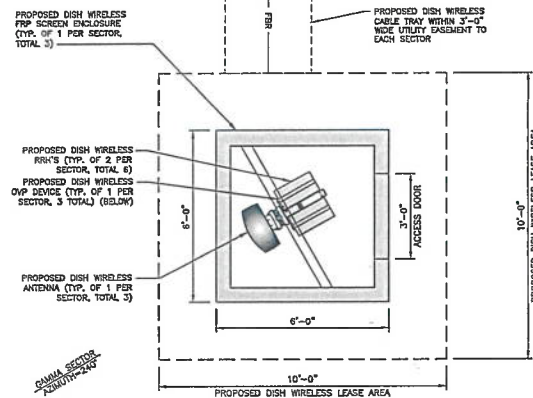
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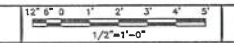
ANTENNA PLAN - BETA SECTOR



2



ANTENNA PLAN - GAMMA SECTOR



3



ANTENNA LOCATION PHOTO

NO SCALE 4

NOT USED

NO SCALE 5

**dish**  
wireless

5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120

**IS INFRASTRUCTURE**

23 MAUCHLY, SUITE 110  
IRVINE, CALIFORNIA 92618

**5G.ile**

Op's Manager: Sean Carpenter  
Phone: 425.246.1060  
Email: Sean.Carpenter@5GILLC.net

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SUBMITTALS		
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2	8/14/2021	100% DD
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JS PROJECT NUMBER

P-053190

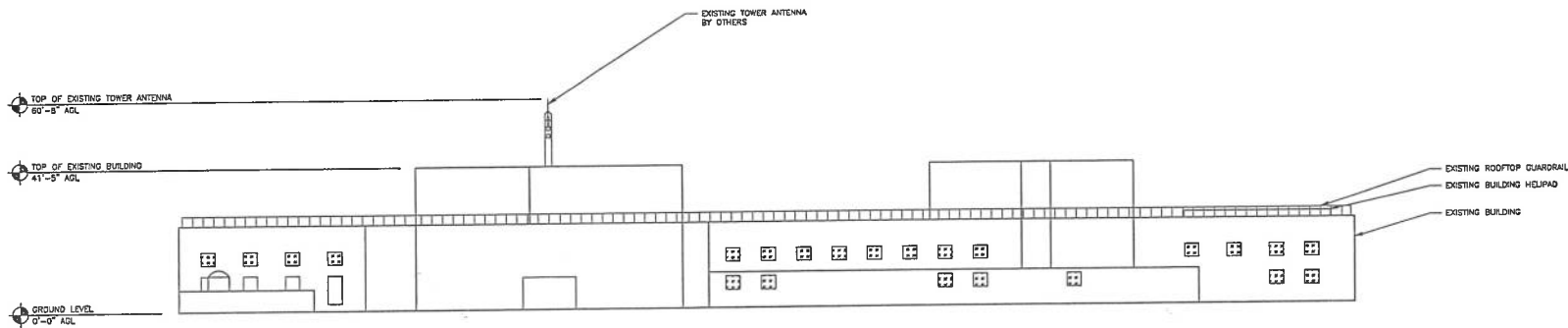
DISH WIRELESS LLC  
PROJECT INFORMATION

SCRN000017B  
775 FLEISCHMANN WAY  
CARSON CITY, NV 89703

SHEET TITLE  
ANTENNA PLAN

SHEET NUMBER

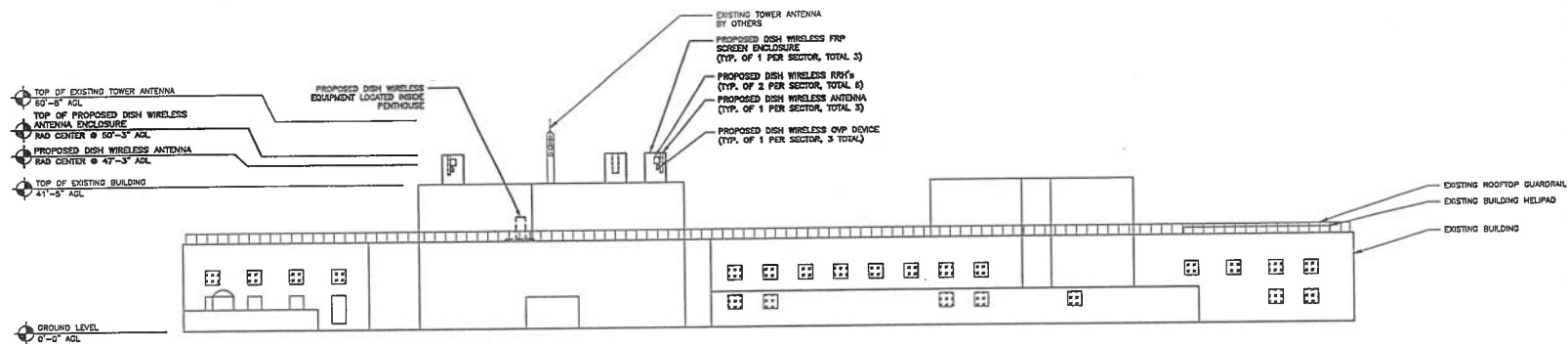
A-3



EXISTING BUILDING SOUTH ELEVATION

16' 12" 8' 4" 0 16' 32'  
1/16"=1'-0"

1



PROPOSED BUILDING SOUTH ELEVATION

16' 12" 8' 4" 0 16' 32'  
1/16"=1'-0"

2

**dish**  
wireless.

5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120

**IS INFRASTRUCTURE**

23 MAUCHLY, SUITE 110  
IRVINE, CALIFORNIA 92618

**5G.ILC**

Op's Manager: Sean Carpenter  
Phone: 425.245.1060  
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RFD REV #:

## ZONING DOCUMENTS

### SUBMITTALS

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2	9/14/2021	1006 ZD
3	10/22/2021	1006 ZD - REVISED
4	11/12/2021	1006 ZD - REVISED
5	11/18/2021	1006 ZD - REVISED

JS PROJECT NUMBER  
P-053190

DISH WIRELESS LLC  
PROJECT INFORMATION

SCRN000017B  
775 FLEISCHMANN WAY  
CARSON CITY, NV 89703

SHEET TITLE  
SOUTH  
ELEVATION  
SHEET NUMBER

A-4

**dish**  
wireless.

5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120

**JS INFRASTRUCTURE**

23 MAUCHLY, SUITE 110  
IRVINE, CALIFORNIA 92618

**5G.ILC**

Op's Manager: Sean Carpenter  
Phone: 425.246.1060  
Email: Sean.Carpenter@5GILC.net

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

**ZONING  
DOCUMENTS**

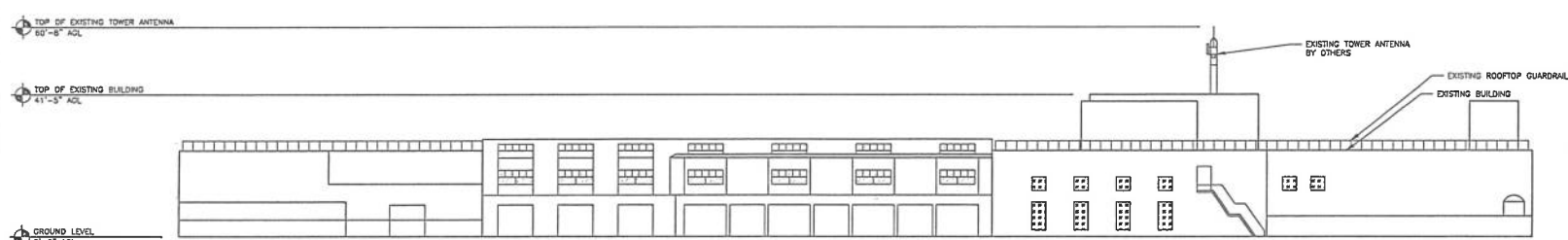
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3	10/12/2021	ISSUE 2D - REVISED
4	11/12/2021	ISSUE 2D - REVISED
5	11/16/2021	ISSUE 2D - REVISED

JS PROJECT NUMBER  
P-053190

DISH WIRELESS L.L.C.  
PROJECT INFORMATION  
SCRN000017B  
775 FLEISCHMANN WAY  
CARSON CITY, NV 89703

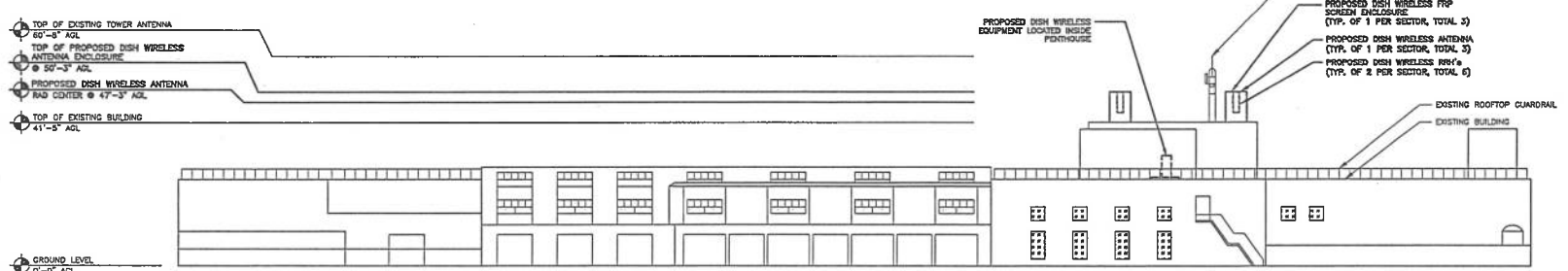
SHEET TITLE  
WEST  
ELEVATION  
SHEET NUMBER

**A-5**



**EXISTING BUILDING WEST ELEVATION**

16' 12' 8' 4' 0' 16' 32'  
1/16\"=1'-0"



**PROPOSED BUILDING WEST ELEVATION**

16' 12' 8' 4' 0' 16' 32'  
1/16\"=1'-0"



112 S Water St, #102, Henderson, NV 89015

## Structural Analysis (Anchorage)

November 16, 2021

Site: SCRNO00017B

Type: Rooftop

Address: 775 Fleischmann Way, Carson, NV 89703

County: Carson City County

Lat/Long: 39° 10' 14.1" N, 119° 46' 20.0" W (39.17059, -119.77221)

J5 Infrastructure Partners (J5IP) is pleased to submit this structural analysis report to Dish. The purpose of this analysis is to design anchorage for proposed cabinet. The project scope of work relevant to this report includes the following items:

- Install (1) (P) HEX CUBE Cabinet

A site visit was performed by J5IP personnel on May 12, 2021. Existing elements relevant to the project scope of work were visually inspected and found to be in good condition.

This report was prepared in accordance with the 2018 IBC, ASCE 7-16, and the AISC 360-16.

This analysis is based off third party data and assumes satisfactory workmanship of all previously-installed and proposed components. If existing conditions vary from what is shown in this report, or if assumptions made within this analysis are inaccurate, the Engineer of Record shall be notified immediately in writing.

It has been our pleasure to be of service to you in this matter. The results of our analysis are summarized in the table below. Please contact us should you have any specific questions, require further clarification, or if we can be of further service.

Sincerely,

J5 Infrastructure Partners, Inc.

Description of Element	Demand-Capacity Ratio	Result	Notes
(P) Cabinet Anchorage (1/2"Ø A307 BOLT)	5%	PASS	Refer to Bolts Report
(E) Roof Beam (W12x26)	51%	PASS	Refer to ENERCALC Report
(E) Steel Column (4.5"OD x0.25" PIPE)	OK by Inspection	PASS	

This report is based on the information obtained in the documents listed below.

[illegible]



**Address:**  
No Address at This  
Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see Section 11.4.3)

**Elevation:** 4716.48 ft (NAVD 88)  
**Latitude:** 39.17059  
**Longitude:** -119.77221



## Wind

### Results:

Wind Speed:	96 Vmph
10-year MRI	67 Vmph
25-year MRI	73 Vmph
50-year MRI	77 Vmph
100-year MRI	82 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Fri Nov 12 2021

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

## Seismic

---

**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

$S_s$ :	2.128	$S_{D1}$ :	N/A
$S_1$ :	0.777	$T_L$ :	6
$F_a$ :	1.2	PGA :	0.912
$F_v$ :	N/A	PGA <sub>M</sub> :	1.095
$S_{MS}$ :	2.554	$F_{PGA}$ :	1.2
$S_{M1}$ :	N/A	$I_e$ :	1
$S_{DS}$ :	1.702	$C_v$ :	1.5

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

**Data Accessed:** Fri Nov 12 2021

**Date Source:** [USGS Seismic Design Maps](#)

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ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.



## Seismic Design Criteria where ASCE 7-16 CH 11.4.8 Applies

The web-based tools used to determine seismic design criteria do not produce values for  $F_a$  and  $F_v$  where ASCE 7-16 CH 11.4.8 is applicable. This tool produces the missing values and determines if a site-specific ground motion study per ASCE 7-16 CH 21.1 is required.

### Site Information

Risk Category: **II**  
Site Class: **D (Stiff soil)**  
 $S_S$ : **2.128**  
 $S_1$ : **0.777**  
 $F_a$ : 1.200  
 $F_v$ : 1.700  
 $S_{MS}$ : 2.554  
 $S_{M1}$ : 1.321  
 $S_{DS}$ : **1.702**  
 $S_{D1}$ : **0.881**  
 $T_L$ : **6**  
 $T_S$ : 0.517  
 $T_0$ : 0.103

### For Site Class D, Only

Is Site Class assumed? **Yes**

### Seismic Design Category

Seismic Design Category: **E**

### Notes regarding ASCE 7-16 CH 11.4.8

A site-specific analysis is not required for structures on Site Class D sites where  $S_1 \geq 0.2$ , provided the seismic response coefficient,  $C_s$ , is modified per ASCE CH 11.4.8 Exception 2. There are no additional requirements for non-structural components designed per ASCE CH 13.

## Equipment Anchorage Forces

- Determine maximum anchor forces for equipment due to wind and/or seismic forces.
- Seismic coefficients are per ASCE 7-16 CH 13.3
- Wind pressures are per ASCE 7-16 CH 29.4.1
- Assumes rectangular 4-anchor layout

### Unit Information

 Name: **(P) HEX CUBE Cabinet**

$W_p$ :	<b>750 lb</b>	(Component operating weight)	$A$ :	<b>26.0 in</b>	(Bolt spacing)
$W$ :	<b>32.0 in</b>	(Equipment width)	$B$ :	<b>26.0 in</b>	(Bolt spacing)
$D$ :	<b>32.0 in</b>	(Equipment depth)	$C$ :	<b>37.0 in</b>	(Height to center of gravity)
$H$ :	<b>74.0 in</b>	(Equipment height)			

### Seismic Coefficients

$S_{DS}$ :	<b>1.702 g</b>	$a_p$ :	<b>1.00</b>	$F_p$ :	$0.82W_p = 613 \text{ lb}$	(Per Section 13.3.1)
$z/h$ :	<b>1.0 ft/ft</b>	$R_p$ :	<b>2.50</b>	$F_{pv}$ :	$0.34W_p = 255 \text{ lb}$	(Per Section 13.3.2)
$I_p$ :	<b>1.00</b>	$\Omega_o$ :	<b>2.00</b>			

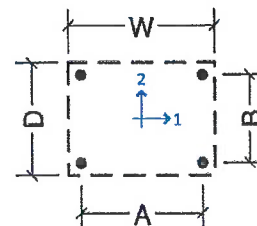
### Wind Pressures

Unit is exposed to wind

Exposure:	C		$q_h: 0.00256K_zK_{zt}K_dK_eV^2$
V:	96 mph	(Basic wind speed)	$q_h: 0.00256(1.05)(1.00)(0.85)(0.84)(96)^2 = 17.8 \text{ psf}$
h:	41 ft	(Building mean roof height)	$F_h: q_h(1.9) = 33.8 \text{ psf}$
$z_g$ :	4716 ft	(Ground elevation)	$F_v: q_h(1.5) = 26.7 \text{ psf}$
$K_{zt}$ :	1.00	(Topographic factor)	

### Maximum Anchor Forces (LRFD)

$T_u$ :	<b>331 lb</b>	(Seismic)	$T_u$ :	<b>274 lb</b>	(Wind)
$V_u$ :	<b>153 lb</b>	(Seismic)	$V_u$ :	<b>139 lb</b>	(Wind)
$\Omega_o T_u$ :	<b>831 lb</b>	(Seismic)			
$\Omega_o V_u$ :	<b>306 lb</b>	(Seismic)			



### Maximum Anchor Forces (ASD)

$T_a$ :	<b>237 lb</b>	(Seismic)	$T_a$ :	<b>153 lb</b>	(Wind)
$V_a$ :	<b>107 lb</b>	(Seismic)	$V_a$ :	<b>83 lb</b>	(Wind)

Equations for Seismic Forces	
$T_{u1} = \left( F_p W_p C + \frac{F_{pv} W_p A}{2} \right) \frac{\Omega_o}{2A} - \frac{0.9W_p}{4}$	
$T_{u2} = \left( F_p W_p C + \frac{F_{pv} W_p B}{2} \right) \frac{\Omega_o}{2B} - \frac{0.9W_p}{4}$	
$T_u = \max(T_{u1}, T_{u2})$	
$V_u = \frac{\Omega_o F_p W_p}{4}$	

Equations for Wind Forces	
$T_{u1} = \left( DHF_h C + \frac{WDF_v A}{2} \right) \frac{1}{2A} - \frac{0.9W_p}{4}$	
$T_{u2} = \left( WHF_h C + \frac{WDF_v B}{2} \right) \frac{1}{2B} - \frac{0.9W_p}{4}$	
$T_u = \max(T_{u1}, T_{u2})$	
$V_u = \frac{\max(DHF_h, WHF_h)}{4}$	

## Steel Bolts & Threaded Parts Check (Shear & Tension)

- Design is per the 2018 IBC.
- Design checks are per AISC 360-16.
- Threads are included in all design checks.
- Tension & Shear checks are per AISC J3.6
- Combined tension & shear checks are per RCSC 5.2

### General

Item Checked: **(P) Cabinet Anchorage**

### Design Criteria

Design Method: **LRFD**  
 Bolt Material: **A307 Bolts**

### Material Properties (AISC Table J3.2)

$F_u$ : 60 ksi (AISC Table J3.2)  
 $F_{nt}$ : 45 ksi (AISC Table J3.2)  
 $F_{nv}$ : 27 ksi (AISC Table J3.2)

### Bolt Results - ASD (Not Applicable)

		$T_a$ :	762 lb	(ASD Tension)				$\Omega$ :	2.00 (ASD Safety Factor)
		$V_a$ :	703 lb	(ASD Shear)					
Bolt		Tension		Shear		Combined Tension & Shear		Max	
Size	$A_b$	$T_n/\Omega$	$T_a/(T_n/\Omega)$	$V_n/\Omega$	$V_a/(V_n/\Omega)$	$(\Omega T_a/T_n)^2 + (\Omega V_a/V_n)^2$		Ratio	
in	$in^2$	lb		lb					
1/4	0.049	1,104	0.69	663	1.06	1.60		1.60	
3/8	0.110	2,485	0.31	1,491	0.47	0.32		0.47	
1/2	0.196	4,418	0.17	2,651	0.27	0.10		0.27	
5/8	0.307	6,903	0.11	4,142	0.17	0.04		0.17	
3/4	0.442	9,940	0.08	5,964	0.12	0.02		0.12	
7/8	0.601	13,530	0.06	8,118	0.09	0.01		0.09	
1	0.785	17,671	0.04	10,603	0.07	0.01		0.07	

### Bolt Results - LRFD

$T_u$ : **331 lb** (LRFD Tension)  $\phi$ : 0.75 (LRFD Resistance Factor)  
 $V_u$ : **153 lb** (LRFD Shear)

Bolt		Tension		Shear		Combined Tension & Shear	Max Ratio
Size	$A_b$	$\phi T_n$	$T_u/(\phi T_n)$	$\phi V_n$	$V_u/(\phi V_n)$	$(T_u/(\phi T_n))^2 + (V_u/(\phi V_n))^2$	
in	$in^2$	lb		lb			
1/4	0.049	1,657	0.20	994	0.15	0.06	0.20
3/8	0.110	3,728	0.09	2,237	0.07	0.01	0.09
1/2	0.196	6,627	0.05	3,976	0.04	0.00	0.05
5/8	0.307	10,354	0.03	6,213	0.02	0.00	0.03
3/4	0.442	14,910	0.02	8,946	0.02	0.00	0.02
7/8	0.601	20,295	0.02	12,177	0.01	0.00	0.02
1	0.785	26,507	0.01	15,904	0.01	0.00	0.01

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## Steel Beam

Lic. #: KW-06007480

File: Roof Check.ec6  
Software copyright ENERCALC, INC. 1983-2020, Build:12.20.10.31

J5 INFRASTRUCTURE PARTNER

DESCRIPTION: W12x26 Proposed

### CODE REFERENCES

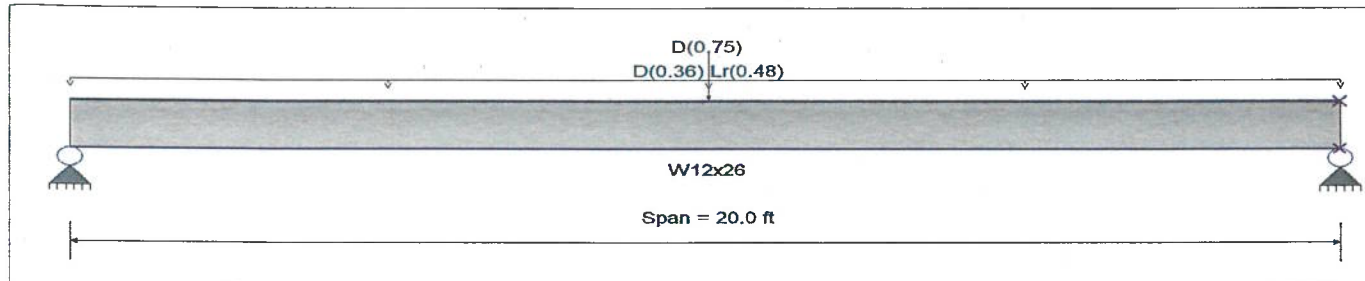
Calculations per AISC 360-10, IBC 2012, CBC 2013, ASCE 7-10

Load Combination Set : ASCE 7-16

### Material Properties

Analysis Method : Allowable Strength Design  
Beam Bracing : Beam is Fully Braced against lateral-torsional buckling  
Bending Axis : Major Axis Bending

Fy : Steel Yield : 50.0 ksi  
E : Modulus : 29,000.0 ksi



### Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading

Uniform Load : D = 0.360, Lr = 0.480 k/ft, Tributary Width = 1.0 ft, (Existing)

Point Load : D = 0.750 k @ 10.0 ft, (Equipment)

### DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio =	0.507 : 1	Maximum Shear Stress Ratio =	0.161 : 1
Section used for this span	W12x26	Section used for this span	W12x26
Ma : Applied	47.050 k-ft	Va : Applied	9.035 k
Mn / Omega : Allowable	92.814 k-ft	Vn / Omega : Allowable	56.120 k
Load Combination	+D+Lr	Load Combination	+D+Lr
Location of maximum on span	10.000 ft	Location of maximum on span	0.000 ft
Span # where maximum occurs	Span # 1	Span # where maximum occurs	Span # 1
Maximum Deflection			
Max Downward Transient Deflection	0.293 in	Ratio =	817 >=360
Max Upward Transient Deflection	0.000 in	Ratio =	0 <360
Max Downward Total Deflection	0.566 in	Ratio =	424 >=180
Max Upward Total Deflection	0.000 in	Ratio =	0 <180

### Maximum Forces & Stresses for Load Combinations

Load Combination	Segment Length	Span #	Max Stress Ratios		Summary of Moment Values							Summary of Shear Values		
			M	V	Mmax +	Mmax -	Ma Max	Mnx	Mnx/Omega	Cb	Rm	Va Max	Vnx	Vnx/Omega
D Only														
Dsgn. L = 20.00 ft		1	0.248	0.075	23.05		23.05	155.00	92.81	1.00	1.00	4.24	84.18	56.1
+D+Lr														
Dsgn. L = 20.00 ft		1	0.507	0.161	47.05		47.05	155.00	92.81	1.00	1.00	9.04	84.18	56.1
+D+0.750Lr														
Dsgn. L = 20.00 ft		1	0.442	0.140	41.05		41.05	155.00	92.81	1.00	1.00	7.84	84.18	56.1
+0.60D														
Dsgn. L = 20.00 ft		1	0.149	0.045	13.83		13.83	155.00	92.81	1.00	1.00	2.54	84.18	56.1

### Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.5661	10.057		0.0000	0.000

### Vertical Reactions

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	9.035	9.035
Overall MINimum	2.541	2.541
D Only	4.235	4.235
+D+Lr	9.035	9.035
+D+0.750Lr	7.835	7.835

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## Steel Beam

Lic. # : KW-06007480

File: Roof Check.ec6  
Software copyright ENERCALC, INC. 1983-2020, Build:12.20.10.31  
J5 INFRASTRUCTURE PARTNERS

DESCRIPTION: W12x26 Proposed

### Vertical Reactions

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
+0.60D	2.541	2.541
Lr Only	4.800	4.800

### ROOF CHECK

#### 1. W12x26 CENTER BEARING ROOF Existing Loads

Beam Length	L:	20 ft	
Tributary Width	WT:	24 ft	
Tributary Area	AT:	480 ft	
Live Load	LL:	20 psf	
	Lr:	14.4 psf	ASCE 7-16 Sec4.8-1
Dead Load:	DL:	15 psf	

ENERCALC Loads lbs/ft

Lr:	480 lb/ft
D:	360 lb/ft

#### 2. 4.5" OD x0.25" PIPE Column

Original Loading

Tributary Length		20
Tributary Width	WT:	24 ft
Tributary Area	AT:	480 ft

Column Dead Load	D:	7200 lbs
Column Live Load	Lr:	6912 lbs
Extisitn Weight	WtEx:	14112 lbs

Proposed Equip. Weight:	375 lbs	equipment is considered to be half way between columns
Proposed Total Weigl WtP:	14487 lbs	

Load increase    WtP/WtE    1.027    <1.05    Load increases by less than 5% therefore Column passes by inspection.



**Lena Reseck**

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**From:** lisa harris <l\_turtle@yahoo.com>  
**Sent:** Friday, February 11, 2022 7:48 AM  
**To:** Heather Ferris; Lena Reseck  
**Subject:** LU-2022-0031

**This message originated outside of Carson City's email system. Use caution if this message contains attachments, links, or requests for information.**

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Hi Lena -

Are materials related to this permit available online? Do you know the status of the sound attenuation the hospital was required to install?

- 1.) The City should not consider any permits from this applicant until the sound attenuation wall is installed, approved and the noise generated by the chilling towers is at an acceptable level.
- 2.) The visual clutter that would be created by the 8.8' towers and FRP enclosures does not fit the community aesthetic or community development guidelines, especially with all the new homes being developed in the area. Even disguised towers that look like trees are not appealing since they look so fake. This area is primarily residential and I recommend the administrative permit be denied.

Lisa Harris