

FIRST AMENDMENT TO SCHEDULE OF LICENSED PROPERTY

THIS FIRST AMENDMENT TO SCHEDULE OF LICENSED PROPERTY ("Amendment") is entered into this _____ of _____ 2023 by and between the CITY OF RIVERSIDE, a California charter city and municipal corporation ("Licensor") and SBA 2012 TC ASSETS, LLC, a Delaware limited liability company authorized to do business in California ("Licensee"), as successor in interest to NEXTEL OF CALIFORNIA, INC..

RECITALS

A. Licensor and Licensee (successor in interest to Nextel of California, Inc.) are parties to that certain Schedule #1 Schedule of Licensed Property dated November 1, 1999 with respect to Site CA-6062G – Canyon Crest ("Schedule"), pursuant to that certain Master Communications Site License Agreement dated December 30, 1998 ("Master Agreement"), for certain real property and easements (collectively, the "Premises") as more particularly described in the Schedule, which are a portion of that certain parcel of real property located in the City of Riverside, County of Riverside, State of California, as more particularly described in the Schedule.

B. Licensee desires to sublicense space at the Premises to Dish Wireless L.L.C., a Colorado limited liability company ("Dish Wireless") and Licensor agrees to grant Licensee consent to such sublicense, all in accordance with the terms and conditions as set forth below.

NOW, THEREFORE, for and in consideration of the promises and mutual covenants herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereby agree to amend the Schedule as follows:

1. ***Applicability.*** The terms and conditions of this Amendment shall apply only to the Schedule and shall not change or vary the terms of any other licensed property subject to the Master Agreement.

2. ***Consent to Sublicense.*** In accordance with Sections 13(a) and (b) of the Master Agreement, Licensor hereby consents to Licensee sublicensing a portion of the Premises to Dish Wireless ("Dish Sublicense"). Licensor agrees to allow Dish Wireless to utilize any existing easements and rights of way, and that the provisions of the Master Agreement shall benefit Dish Wireless.

3. ***Sublicense Fee.*** Notwithstanding section 13(d) of the Master Agreement, as consideration for the consent to sublicense, Licensee shall pay to the City 55% of any consideration Licensee receives from the initial sublicensee in excess of the fee under this Schedule and 60% of any consideration Licensee receives from any additional sublicensees in excess of the fee under this Schedule ("Sublicense Fee"). Such amounts shall be due and payable at the same time as any other fee is due and payable to the City. In the event that the

consideration Licensee receives from the sublicensee is altered, Licensee shall provide the City with 30 days' notice of the change. For the purpose of this Amendment, the initial Sublicense Fee due under this section shall be **One Thousand Two Hundred and Eighty-Nine Dollars and Ninety-Six Cents (\$1,289.96)**.

This Sublicense Fee shall terminate on the date the above authorized sublicense terminates or expires, whichever is earlier and shall resume at such time as Licensee obtains consent for a subsequent sublicense.

4. ***Modification of Premises.*** The proposed Sublicensee desires to make modifications to the Premises as shown on Exhibit "B-2" attached hereto and incorporated herein. Licensor agrees that Licensee, or its Sublicensee, may make the modifications shown on Exhibit B-2 and hereby consents to the same. Nothing in this agreement excuses Licensee from the requirement to obtain any other approvals that might be independently required by Licensor solely in its governmental and executive capacities (e.g. building permits or storm water permits).

5. ***One-Time Modification Fee.*** In exchange for Licensor's consent to the modifications as provided in Paragraph 4 above, and in addition to any other Fees already owed for Licensee's use of the Premises, Licensee shall pay the Licensor a one-time fee of Ten Thousand Dollars (\$10,000.00). This fee shall be due to the Licensor within fifteen (15) days of Licensee's receipt of an invoice from the Licensor after full execution of this Second Schedule Amendment.

6. ***Agreement in Full Force.*** Except as expressly amended hereby, all terms and conditions of the Master Agreement and Schedule shall remain in full force and effect, and, in the event of any inconsistencies between this Amendment and the terms of the Master Agreement and Schedule, the terms set forth in this Amendment shall govern and control. The covenants, representations and conditions in the Master Agreement and Schedule are mutual and dependent.

7. ***Counterparts.*** This Amendment may be executed in one or more counterparts which shall be construed together as one document.

8. ***Defined Terms.*** Unless otherwise defined, all defined terms used in this Amendment shall have the meanings ascribed to them under the Schedule.

9. ***Successors and Assigns.*** Upon full execution by Licensee and Licensor, this Amendment (i) shall be binding upon and shall inure to the benefit of each of the parties and their respective successors, assigns, receivers and trustees; and (ii) may be modified or amended only by a written agreement executed by each of the parties.

10. ***Non-Binding Until Fully Executed.*** This Amendment is for discussion purposes only and does not constitute a formal offer by either party. This Amendment is not and will not be binding on either party until and unless it is fully executed by both parties.

11. ***Recitals.*** The recitals at the beginning of this Amendment are incorporated in and made a part of this Amendment.

[SIGNATURES APPEAR ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first written above.

LICENSOR:
CITY OF RIVERSIDE

By: _____
Name:
Title:

LICENSEE:
SBA 2012 TC ASSETS, LLC

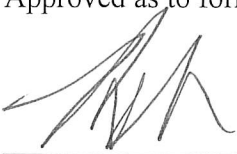
By:  _____
Name: Brian Allen
Title: SUP, Site Leasing

ATTESTED TO:

By: _____
Name:
Title:

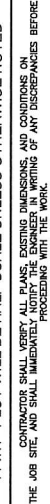
By: _____
Name:
Title:

Approved as to form:

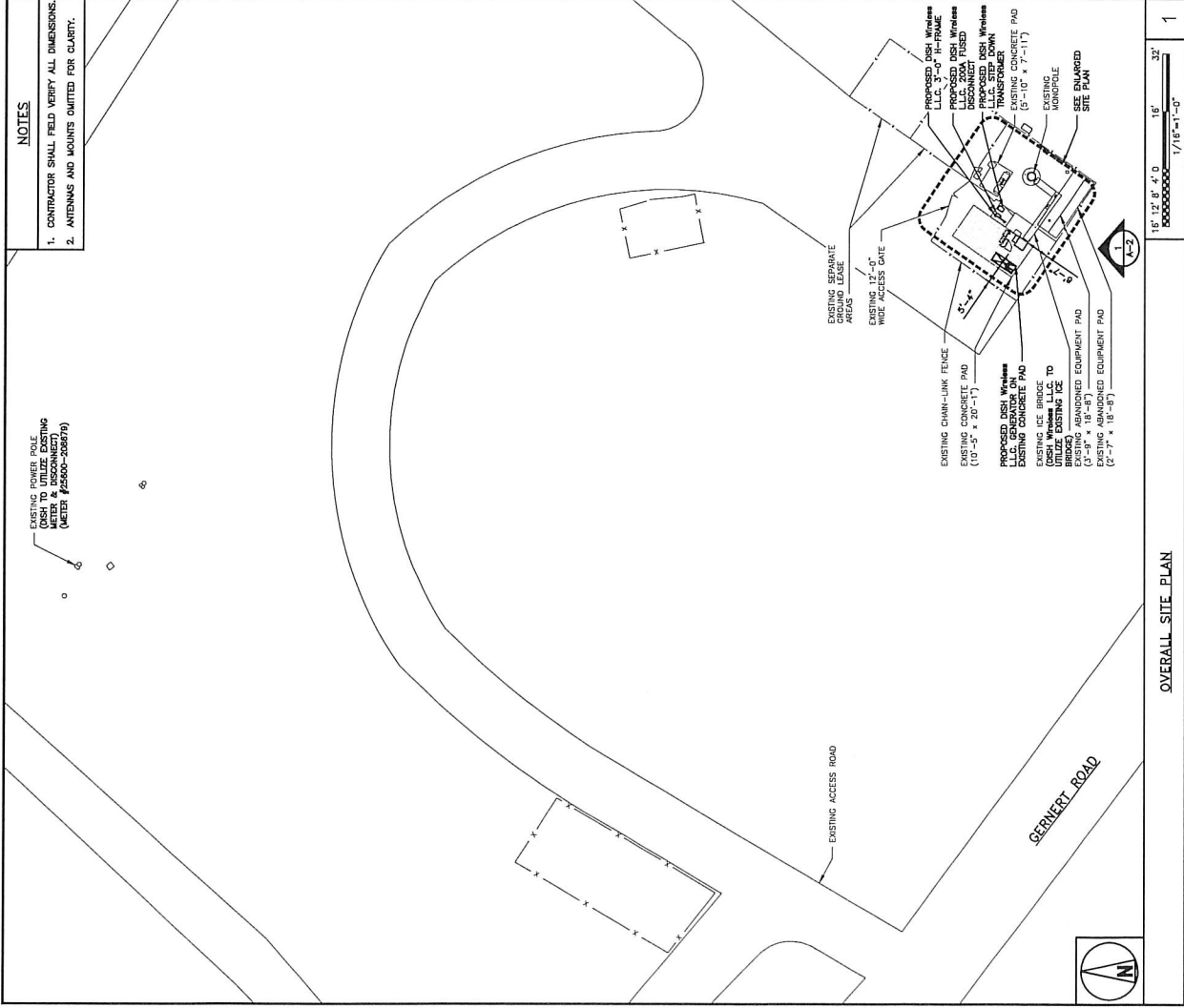


Deputy City Attorney

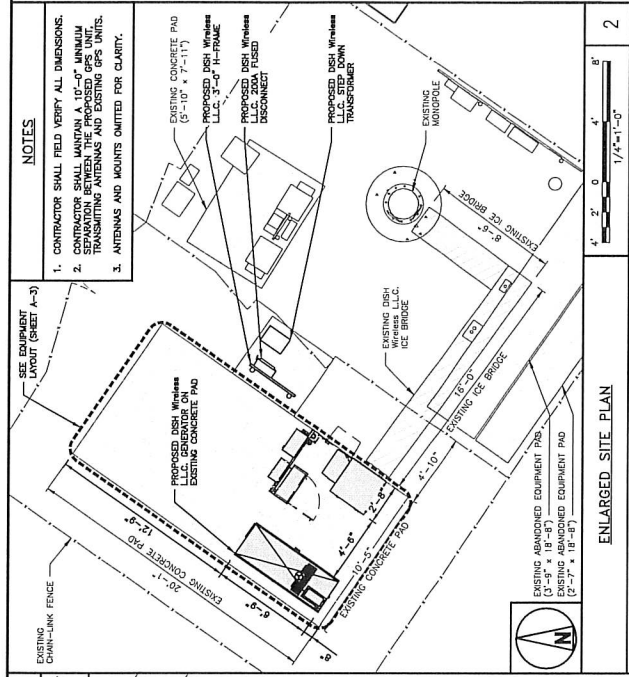
EXHIBIT B-2



		UNDERGROUND SERVICE ALERT UTILITY NOTIFICATION CENTER OF CALIFORNIA 800-462-4133 WWW.CALIFORNIA811.ORG CALL 2-1-1 MORNING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION		GENERAL NOTES THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON THE ENVIRONMENT. A SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SANITATION IS PROPOSED.	11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
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- NOTES**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



ENLARGED SITE PLAN

- NOTES**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 2. CONTRACTOR SHALL MAINTAIN A 10'-0" UNBUILT SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
 3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.

5701 SOUTH SAVANNA DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FINEVIEW ST. SUITE 600
RALEIGH, NC 27601

470 DAVENPORT ROAD
PITTSBURGH, PA 15239
TEL: (740) 260-9710

02/22/22
Exp: 03/31/22

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DRAWN BY: CHECKED BY: APPROVED BY:

LMS DY KAC

APPLICATION REV #:

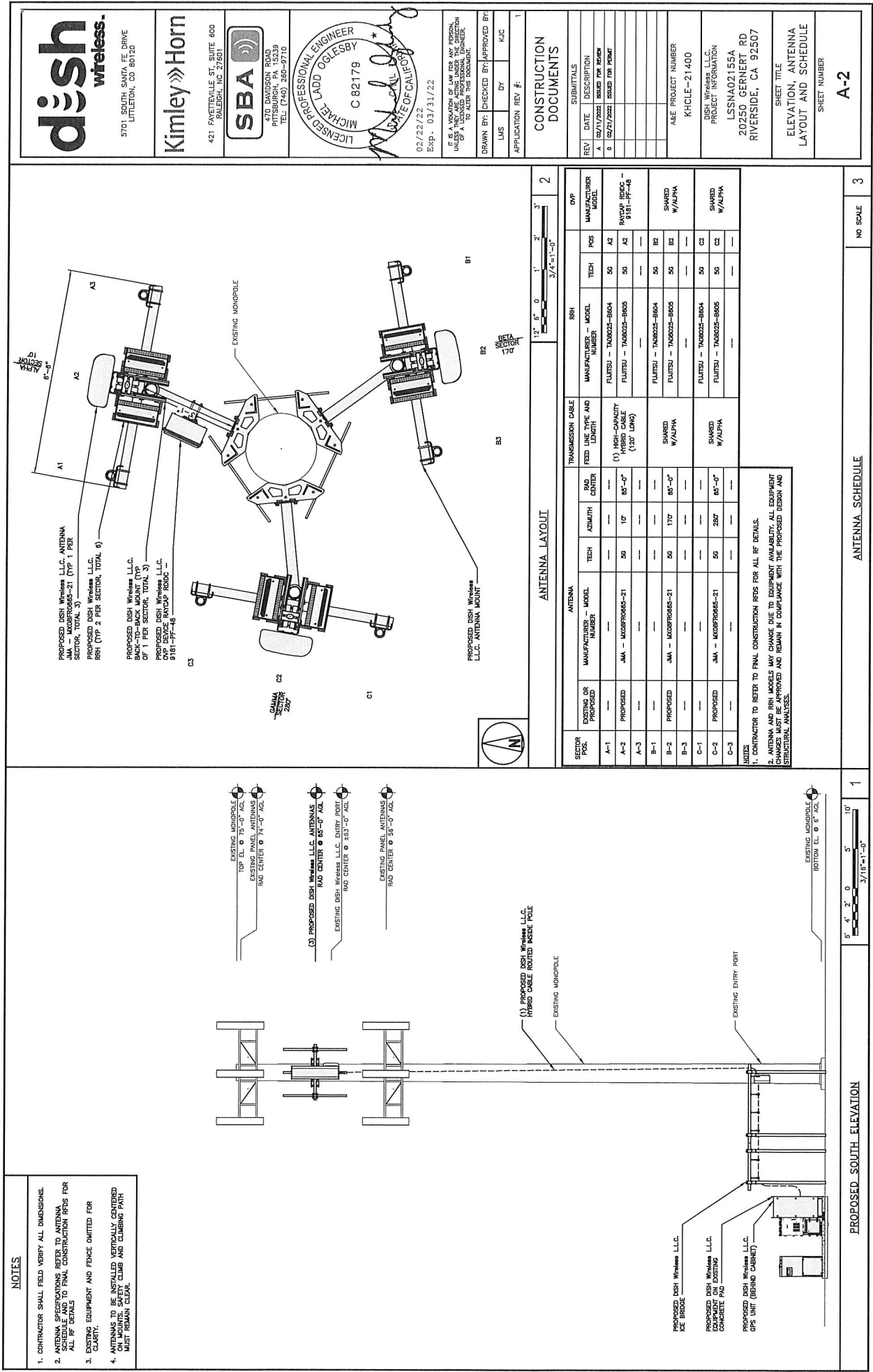
CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
A	02/11/2022	ISSUED FOR PERMIT
B	02/21/2022	ISSUED FOR PERMIT

AGE PROJECT NUMBER
KHCL-21400

DISH Wireless, LLC
PROJECT INFORMATION
LSSNA02155A
20250 GERNERT RD
RIVERSIDE, CA 92507

SHEET TITLE
OVERALL AND ENLARGED SITE PLAN
SHEET NUMBER
A-1



NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA SPECIFICATIONS REFER TO ANTENNA. ALL RF DETAILS.
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.
4. ANTENNAS TO BE INSTALLED VERTICALLY CENTERED MUST REMAIN CLEAR.

ANTENNA LAYOUT

SECTOR POS.	EXISTING OR PROPOSED	MANUFACTURER - MODEL NUMBER	TECH	ADJUTANT	RAD CENTER	FEED LINE TYPE AND LENGTH	TRANSMISSION CABLE	MANUFACTURER - MODEL NUMBER	TECH	POS	MANUFACTURER MODEL
A-1	---	---	---	---	---	---	---	FLUTSU - TAD0025-B004	50	A1	---
A-2	PROPOSED	JAM - M008P0605-21	50	107	85'-0"	(1) HIGH-CAPACITY 75 OHM COAXIAL CABLE (30' LONG)	---	FLUTSU - TAD0025-B005	50	A2	RAYCAP R000 - 9181-PF-A8
A-3	---	---	---	---	---	---	---	---	---	---	---
B-1	---	---	---	---	---	---	---	FLUTSU - TAD0025-B004	50	B1	---
B-2	PROPOSED	JAM - M008P0605-21	50	170	85'-0"	SHARED W/ALPHA	---	FLUTSU - TAD0025-B005	50	B2	---
B-3	---	---	---	---	---	---	---	---	---	---	---
C-1	---	---	---	---	---	---	---	---	---	---	---
C-2	PROPOSED	JAM - M008P0605-21	50	230	85'-0"	SHARED W/ALPHA	---	FLUTSU - TAD0025-B004	50	C1	---
C-3	---	---	---	---	---	---	---	---	---	---	---

NOTES:
1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION SETS FOR ALL RF DETAILS.
2. ANTENNA AND RFI MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND RETURN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

PROPOSED SOUTH ELEVATION

ANTENNA SCHEDULE

NO SCALE

3



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FINETRAILLE ST. SUITE 600
RALEIGH, NC 27601



4370 SANDERS ROAD
PITTSBURGH, PA 15239
TEL: (740) 260-9710



02/22/22
E:DP - 03/31/22
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LMS DT KUC
APPLICATION REV #:

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
1	02/21/2022	ISSUED FOR REVIEW
2	02/21/2022	ISSUED FOR PERMIT

PROJECT INFORMATION
DISH Wireless, LLC
LSSNA02155A
20250 GERNERT RD
RIVERSIDE, CA 92507

SHEET TITLE
ELEVATION, ANTENNA
LAYOUT AND SCHEDULE

SHEET NUMBER
A-2

OR DISH Wireless LLC.
APPROVED EQUIVALENT

RRH MOUNT DETAIL

COMMSCOPE	
MC-K6MHDX-9-96	
FACE WIDTH	7'-0"
WEIGHT	1203.31 lbs
NOTE: 15" TO 50" O.D.	



10 SCALE



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST. SUITE 600



470 DAVIDSON ROAD
PITTSBURGH, PA 15239
TEL: (740) 260-9710



08219
*
CHIL
DATE OF CALIFORNIA

02/22/22
Exp. 03/31/22

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LMS	DY	KJC
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APPLICATION REV #:

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	02/11/2022	ISSUED FOR REVIEW

0	02/21/2022	ISSUED FOR PERMIT

[illegible]

AAE PROJECT NUMBER
KHCL-21400

DISH Wireless L.L.C.
PROJECT INFORMATION

LSSNA02155A

20250 GERNERT RD
RIVERSIDE, CA 92507

SHEET TITLE

GROUNDING PLANS
AND NOTES

SHEET NUMBER

G-1

1000000

- | | | | | | |
|---|-----------------------|---|-----------------------|-----|--|
| ● | EXOTHERMIC CONNECTION | ■ | MECHANICAL CONNECTION | □ | TEST GROUND ROD WITH INSPECTION SLEEVE |
|  | GROUND ROD |  | GROUND BUS BAR | --- | #6 AWG STRANDED & INSULATED |
| | | | | --- | #2 AWG SOLID COPPER TINNED |
| | | | | ▲ | BUSSE BAR INSULATOR |

GROUNDING LEGEND

1. GROUNDING IS SHOWN DIAGNOSTICALLY ONLY.
2. CONTRACTORS SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND UL STANDARDS. SEE ALSO THE REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

- A. EXTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER, BURRED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 8 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.
- B. TOWER GROUND RING: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LESS THAN 10' DIAMETER. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE ANTENNA, THE GROUND RING SHALL BE INSTALLED BETWEEN THE TOWER GROUND SYSTEM AND THE ANTENNA GROUND SYSTEM USING MINIMUM #2 AWG SOLID TINNED COPPER CONDUCTORS.
- C. INTERIOR GROUND RING: #2 AWG STRANDS GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE INTERIOR GROUND RING. THE INTERIOR GROUND RING SHALL BE INSTALLED WITH METAL OBJECTS FOUND WITHIN A SITE SHALL BE GROUND TO THE INTERIOR GROUND RING WITH #2 AWG STRANDS GREEN INSULATED CONDUCTOR.
- D. BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE EMBURY RINGS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.
- E. GROUND ROD: UNLISTED COPPER CLAD STEEL 5/8" DIAMETER BY TEN FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- F. CELL REFERENCE GROUND: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDS GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
- G. MATCH-PLATE GROUND: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDS GREEN INSULATED COPPER CONDUCTORS. WHEN A MATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH USED, THE MATCH-PLATE SHALL BE BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDS GREEN INSULATED COPPER CONDUCTORS EACH.
- H. EXTERIOR CABLE ENTRY POINT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EARTHING WELD AND INSPECTION SLEEVE.
- I. TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- J. FRAME BONDS: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- K. INTERIOR UNIT BONDS: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #2 AWG STRANDS GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.
- L. FENCE AND EXT. GROUNDINGS: METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BOUNDED TO THE EXTERIOR GROUND RING SHALL BE BOUNDED TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR. METAL FENCE SHALL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
- M. EXTERIOR CABLE BONDS: METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BOUNDED TO THE EXTERIOR GROUND RING USING #2 TINNED SOLID COPPER WIRE.
- N. ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BOUNDED TO THE GROUND RING WITH #2 AWG SOLID TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELLS AT BOTH THE ICE BRIDGE LEG AND BURRED BOND.
- O. NOT USED
- P. GROUND ROD COLLECTOR BUS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR. REFER TO DSH Wireless LLC. GROUNDINGS NOTES.

TYPICAL ANTENNA GROUNDING PLAN

2

3	
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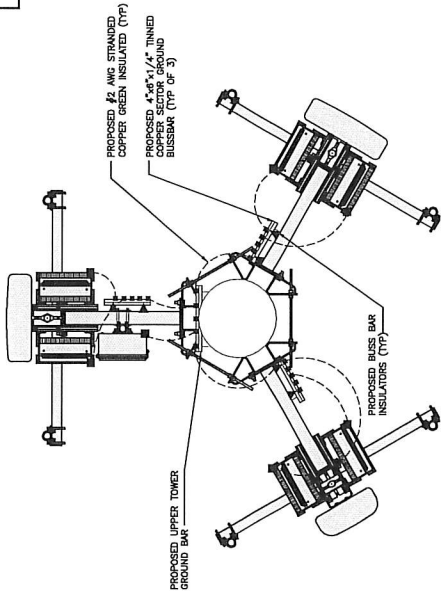
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TYPICAL EQUIPMENT GROUNDING PLAN

NO SCALE	1
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NOTES

1. ANTENNAS AND OVP SHOWN ARE GENERIC AND NOT REFERRING TO A SPECIFIC MANUFACTURER. THIS LAYOUT IS FOR REFERENCE ONLY





5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAIRVIEW ST. SUITE 600
BALDWIN, NC 27601



430 COURTHOUSE BLVD
PITTSBURGH, PA 15208
TEL: (724) 250-9710



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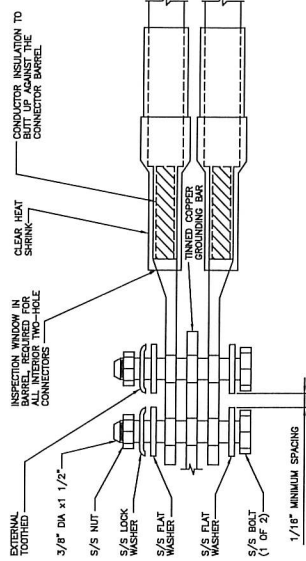
CONSTRUCTION DOCUMENTS

REVISIONS

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DISH Wireless, LLC.
PROJECT INFORMATION
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20250 GERNERT RD
RIVERSIDE, CA 92507

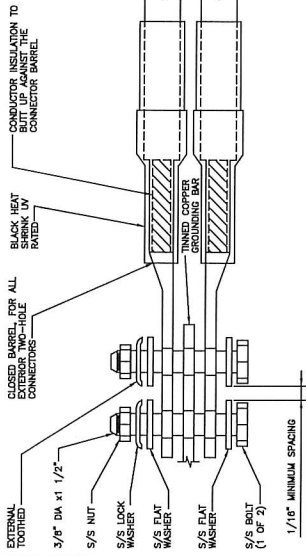
SHEET TITLE
GROUNDING DETAILS
SHEET NUMBER
G-3



TYPICAL INTERIOR TWO HOLE LUG

NO SCALE

3



TYPICAL EXTERIOR TWO HOLE LUG

NO SCALE

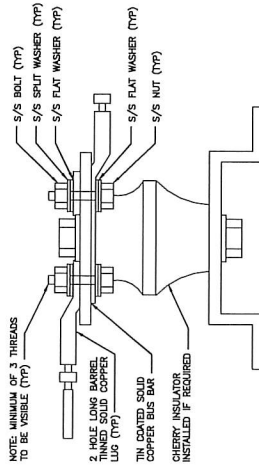
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1. SUFFICIENT WELD (3) TWO #6 WIRE BARS THRU SOLID COPPER CONDUCTORS TO GROUND BAR. THE WELDS SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER.
2. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE INSTALLING.
3. FOR GROUND BEND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE INSTALLING.
4. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
6. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
8. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

TYPICAL GROUNDING NOTES

NO SCALE

1



LUG DETAIL

NO SCALE

4

NOT USED

NO SCALE

5

NOT USED

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

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

SIGN PLACEMENT:

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH WIRELESS LLC.
- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH WIRELESS LLC EQUIPMENT.
- A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH WIRELESS LLC H-FRAME WITH A SECURE ATTACH METHOD.
- B) IF THE INFORMATION SIGN IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH WIRELESS LLC CONSTRUCTION MANAGER FOR FURTHER INSTRUCTION ON HOW TO PROCEED.

NOTES:

1. FOR DISH WIRELESS LLC LOGO, SEE DISH WIRELESS LLC DESIGN SPECIFICATIONS (PROVIDED BY DISH WIRELESS LLC.)
2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH WIRELESS LLC APPROVAL REQUIRED)
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH WIRELESS LLC CONSTRUCTION MANAGER RECOMMENDATIONS.
4. CABINET/SHEETER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREENS
6. ALL SIGNS TO BE 8.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

INFORMATION

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

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

Site ID: LSSNA02155A



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

NOTICE



Transmitting Antenna(s)

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

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

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

Site ID: LSSNA02155A



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

CAUTION



Transmitting Antenna(s)

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Site ID: LSSNA02155A



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WARNING



Transmitting Antenna(s)

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LITTLETON, CO 80120

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421 FARMVILLE ST SUITE 600
DALLAS, TX 75201



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CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
1	02/21/2022	ISSUED FOR REVIEW
0	02/21/2022	ISSUED FOR PERMIT

A&E PROJECT NUMBER
KHCL-21400

DISH Wireless, L.L.C.
PROJECT INFORMATION
LSSNA02155A
20250 GERNERT RD
RIVERSIDE, CA 92507

SHEET TITLE
RF
SIGNAGE
SHEET NUMBER

GN-2

RE SIGNAGE

SITE ACTIVITY REQUIREMENTS:

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

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONALITY OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON WHICH THE TOWER OR EQUIPMENT IS DEPENDENT. ANY WORK THAT RESULTS IN THE REMOVAL OF ANY PART OF THE CLIMBING FACILITY OR ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WORK FORCE WHICH MAY CAUSE FREQUENT WEAR, OR WEAR FROM ANCHORAGE POINTS IN ANY WAY, OR TO IMPED/BLOCK ITS INTENDED USE, ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NCC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ON-SITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.

4. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH Wireless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).

5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.

10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. ANY UTILITIES DAMAGED OR DESTROYED BY CONTRACTOR, EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERCE HOLES OR OTHER UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, UNLESS APPROVED REVISION.

12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. WASTE MATERIAL, DEBRIS, STICKS, STUMPS, DEBRIS, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.

16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRAINWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

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

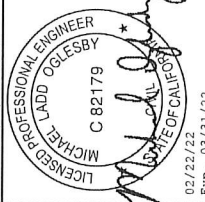
CONTRACTOR-GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER-DISH Wireless L.L.C.

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



Kimley»Horn
421 FAYETTEVILLE ST, SUITE 600
BALTIMORE, NC 27601



02/22/22
Exp. 03/31/22
I, A MEMBER OF THE STATE OF CALIFORNIA, DO HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER, AND I HAVE REVIEWED AND APPROVED THIS DOCUMENT FOR THE PROJECT AND SITE SHOWN.

DRAWN BY: CHECKED BY: APPROVED BY:
LMS DY KAC

APPLICATION REV #:
1

CONSTRUCTION DOCUMENTS

SUBMITTALS	
REV	DATE DESCRIPTION
1	02/17/2022 ISSUED FOR REVIEW
2	02/21/2022 ISSUED FOR TOWER

AAE PROJECT NUMBER
KHCL-21400

DISH Wireless L.L.C.
PROJECT INFORMATION
LSSNA02155A
20250 GERNERT RD
RIVERSIDE, CA 92507

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 pcf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_c) OF 4000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADJUNCTURES, AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (w/c) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615, ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICERS SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (f_y) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER 40 ksi
#5 BARS AND LARGER 60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 BARS AND LARGER 2"
 - #5 BARS AND SMALLER 1-1/2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - SLAB AND WALLS 3/4"
 - BEAMS AND COLUMNS 1-1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 - 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED. 22,000 AC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.2.4 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR CAPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT IDS).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. TIE WRAPS ARE NOT ALLOWED.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

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



5701 SOUTH SANFEE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST. SUITE 600
BALDWIN, NC 27801



470 DANDISON ROAD
PITTSBURGH, PA 15238
TEL (740) 260-9710



02/22/22
Exp. 03/31/22

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS A LICENSED PROFESSIONAL ENGINEER, TO SEAL THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:

LMS DY KAC

APPLICATION REV #:

CONSTRUCTION DOCUMENTS

SUBMITTALS	
REV	DATE DESCRIPTION
A	02/11/2022 ISSUED FOR PERMIT
B	02/21/2022 ISSUED FOR PERMIT

A&E PROJECT NUMBER
KHCL-21400

DISH Wireless LLC
PROJECT INFORMATION
LSSNA02155A
20250 GERNERT RD
RIVERSIDE, CA 92507

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-4

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GESS'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OFF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND #1) FOR GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BITS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BITS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH OR CONNECTED TO THE MAIN GROUND RING. THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLIDES, SHALL BE SEPARATED FROM THE MAIN GROUND RING BY INSULATION. THE CONDUCTOR SHALL BE INSTALLED IN SUCH CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED, WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE SHALL BE #2 BARE SOLID TINNED COPPER IN 3/4" OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM. THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAIRVIEW ST. SUITE 600
SALERGH, NC 27601



430 ANDERSON ROAD
PITTSBURGH, PA 15239
TEL: (740) 260-9710



02/22/22
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNDER A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:

LWS DY KJC

APPLICATION REV #:

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CONSTRUCTION DOCUMENTS

SUBMITTALS

REV DATE DESCRIPTION

1 12/14/2021 ISSUED FOR REVIEW

0 12/21/2021 ISSUED FOR PERMIT