TOWN OF JACKSON
PLANNING & BUILDING DEPARTMENT

TRANSMITTAL MEMO

Town of Jackson
- ☒ Public Works/Engineering
- ☒ Building
- ☐ Title Company
- ☒ Town Attorney
- ☒ Police

Joint Town/County
- ☐ Parks and Recreation
- ☒ Pathways
- ☐ Joint Housing Dept

Teton County
- ☐ Planning Division
- ☐ Engineer
- ☐ Surveyor- *Nelson*
- ☐ Assessor
- ☐ Clerk and Recorder
- ☐ Road and Levee

State of Wyoming
- ☐ Teton Conservation
- ☐ WYDOT
- ☐ TC School District #1
- ☐ Game and Fish
- ☐ DEQ

Federal Agencies
- ☐ Army Corp of Engineers

Utility Providers
- ☐ Qwest
- ☐ Lower Valley Energy
- ☐ Bresnan Communications

Special Districts
- ☐ START
- ☒ Jackson Hole Fire/EMS
- ☐ Irrigation Company

Date: December 3, 2021

Item #: P21-309

Planner: Paul Anthony

Phone: 733-0440 ext. 1303

Email: panthony@jacksonwy.gov

Owner
Town of Jackson
PO Box 1687
Jackson, WY 83001

Applicant
New Cingular Wireless
1025 Lenox Park Blvd NE
3rd Floor
Atlanta, GA 30319

REQUESTS:

The applicant is submitting a request for a wireless encroachment to construct small wireless facilities within the Town of Jackson right-of-way.
IDL07031F_R01
Replacement Light Pole
1805 WHITEHOUSE DR (CRAN_JCKSN 001) 30'
IDL07034F_R03
Replacement Light Pole
617 E HALL AVENUE (CRAN_JCKSN 009) 30'
IDL07035F_R01
Replacement Light Pole
490 W BROADWAY AVE (CRAN_JCKSN 013) 30'

For questions, please call Brian Lenz at 733-0440, x1410 or email to the address shown below. Thank you.

Please respond by: **December 14, 2021 (Sufficiency)**
December 23, 2021 (with Comments)

RESPONSE: For Departments not using Trak-it, please send responses via email to:
blenz@jacksonwy.gov

JACKSON REPLACEMENT POLES APPLICATION- 166 pages

18401 Von Karman Ave, Suite 400, Irvine, CA 92612
p (949) 861-2201 f (949) 468-0931 smartlinkllc.com

Via Email

Town of Jackson Planning
150 E Pearl Avenue
Jackson, WY 83001

RE: Small Cell Application Submittal

Dear Mr. Lenz:

New Cingular Wireless PCS, LLC d/b/a AT&T Mobility ("AT&T") submits the enclosed application and supporting materials to obtain authorization to construct small wireless facilities within the Town of Jackson, WY right-of-way. Small cells are low-power, low-profile wireless communications facilities that improve signal quality and capacity within AT&T's existing wireless network. The proposed small cell facilities will help AT&T provide and improve critical wireless services in this area.

Project Description
This request is an application review of batch of three (3) small wireless facilities, constructed on replacement light structures in the public right-of-way. I have provided in the email a link to SharePoint folder which has all the exhibits as mentioned in the application responses as applicable.

AT&T ID	Owner/Pole Type	Location	Proposed Height
IDL07031F_R01	Replacement Light Pole	1805 WHITEHOUSE DR (CRAN_JCKSN 001)	30'
IDL07034F_R03	Replacement Light Pole	617 E HALL AVENUE (CRAN_JCKSN 009)	30'
IDL07035F_R01	Replacement Light Pole	490 W BROADWAY AVE (CRAN_JCKSN 013)	30'

Application Contact
Questions or notices related to this application may be directed to:

Sharon Gray
Sharon.Gray@smartlinkgroup.com
1997 Annapolis Exchange Pkwy, Suite 200, Annapolis, MD 21401
469-693-6289

Our goal is to work with you to obtain approval of these permits/agreements without delay. We will respond promptly to any requests for information you may have for our application. Please let us know how we can work with you to make the approval process easier for you. We look forward to working with you on this important project, which will significantly improve wireless communication services in your community. Should you have any questions or require additional information, please do not hesitate to contact me at the address below.

Sincerely,

Sharon Gray

November 29, 2021

Mr. Brian Lenz
Town of Jackson
450 West Snow King Avenue
Jackson, WY 83001

Re: Town of Jackson: **Replacement Light Poles Batch Application**

Dear Brian Lenz:

Below is a narrative to the Town of Jackson for the following (3) sites submitted on 11/29/2021, and within the application responses we have labeled applicable exhibit files in which you can find at the Sharepoint link.

Type II – Street Light Replacement Poles Batch Application
IDL07031F_R01- 1805 WHITEHOUSE DR (CRAN_JCKSN 001)
IDL07034F_R03 – 617 E HALL AVENUE (CRAN_JCKSN 009)
IDL07035F_R01- 490 W BROADWAY AVE (CRAN_JCKSN 013)

PART A: BASIC INFORMATION (ALL APPLICANTS)

A.1(a). Type of Application

Applicant Response to A.1(a): This is an application requesting approval to install Type II Street Light Replacement Poles owned and controlled by the applicant.

A.1(b). This application is: Small Wireless Facility (Street Light Replacement Structure)

Applicant Response to A.1(b): The application is being submitted for approval to deploy a Small Wireless Facility as defined by 47 C.F.R. § 1.6002(I) involving replacement of a light pole structure. Applicant will submit the information required in Part A, Part B and the Application Requirements Part C.2 and if applicable, C.4. The applicable FCC shot clock is ninety (90) days.

A.2. Contact information

i) Identity of franchisee

Applicant Response to A.2(i):
Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319
Email: vb1319@att.com (RMR Project Manager Veronica Bonilla)
Phone: 800-836-6662

ii) Identity of applicant:

Applicant Response to A.2(ii):

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319
Email: vb1319@att.com (RMR Project Manager Veronica Bonilla)
Phone: 800-836-6662

iii) Identity of person or persons that will respond to questions regarding this application.

Applicant Response to A.2(iii): This is not a "neutral host" facility.

Name: Sharon Gray
Address: 1997 Annapolis Exchange, Pkwy Suite 200, Annapolis, MD 21401
Email: Sharon.gray@smartlinkgroup.com
Phone: 469-693-6289

iv) Identity of the person who will own, control, operate or maintain any part of the proposed WF, other than a support structure owned by a third party.

Applicant Response to A.2(iv):

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319
Email: vb1319@att.com (RMR Project Manager Veronica Bonilla)
Phone: 800-836-6662

v) Identity of a contact person available to respond 24/7 to emergencies, or requests to shut down facilities.

Applicant Response to A.2(v):

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319
Email: vb1319@att.com (RMR Project Manager Veronica Bonilla)
Phone: 800-836-6662

vi) Identity of the contractor that will be performing the work.

Applicant Response to A.2(vi):

Name: Sumanth Chejarla- OVERLAND CONTRACTING INC.
Address: 600 North Greenfield Parkway, Garner, NC, 27529

Email: chejarlas@bv.com
Phone: 650-580-4955 |

A.3(a). Please provide a brief description of the project for which the permit is sought.

Applicant Response to A.3(a): AT&T TO REPLACE EXISTING POLE LIGHT WITH NEW 30'-0" METAL SABRESMARTSTACK STEALTH LIGHT POLE·INSTALL CANISTER ANTENNA ON NEW MOUNT·INSTALL RRH UNITS INSIDE STEALTH POLE·INSTALL METER INSIDE CABINET·INSTALL LOAD CENTER INSIDE STEALTH POLE·POLE COLOR: MOSS GREEN RAL#6005

A.3(b). Attach a map showing the location of the proposed WF (the electronic version should link to a map that can be opened in Google Earth, or a similar, generally available program).

Applicant Response to A.3(b): Please see attached map and kmz file labeled Exhibit A(3)(b) – Jackson Replacement Poles.

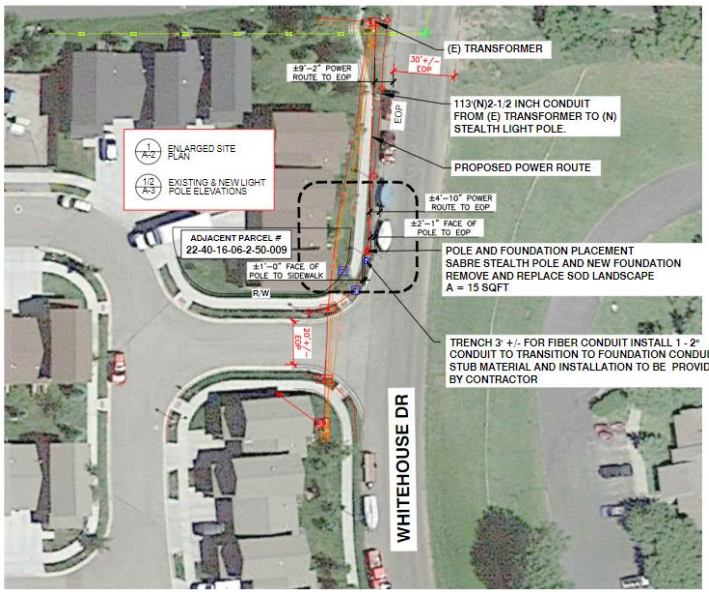
A.3(c). Except for eligible facilities requests: if the application is part of the development of a wireless network, please describe that network, including the number of facilities and the manner in which they will be connected (and whether excavation will be required, and if so, where), and provide a map (see requirements for part 3(b)) showing the location of all facilities.

Applicant Response to A.3(c): The applicant is proposing a network of 11 small wireless facilities, submitted in 3 batched applications, that will enhance capacity and improve the quality of the overall AT&T wireless network in Jackson, Wyoming. Excavation will be required to place the handhole to connect to utilities, including fiber and power, that will be brought to the site by third parties. AT&T understands that they are not guaranteed a right to use a particular location until the Town of Jackson has approved the permits. Full fiber plans are not available as they will be planned and permitted through a 3rd party fiber company. We understand that until the Town of Jackson reviews and approves the fiber plans, AT&T will not be able to receive full approval to start construction. AT&T is approval, subject to a subsequent approval of the third-party fiber plan.

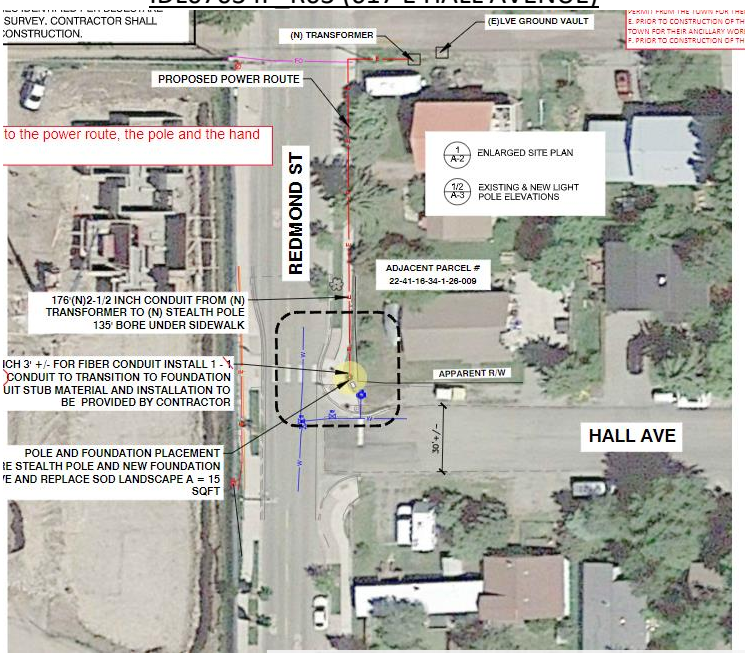
Details regarding LVE Power Design
LVE has conducted site visits for each site. The power plan and route is included on page A-1 of the construction drawings and is also shown below. Electrical details and line diagrams are included on pages E-1 and E-2.

Pole ID	Power Source	Location
IDL07031F_R01	Existing Transformer	Placed north of pole
IDL07034F_R03	New Transformer	Placed north of pole
IDL07035F_R01	Existing Meter	Placed southwest of pole

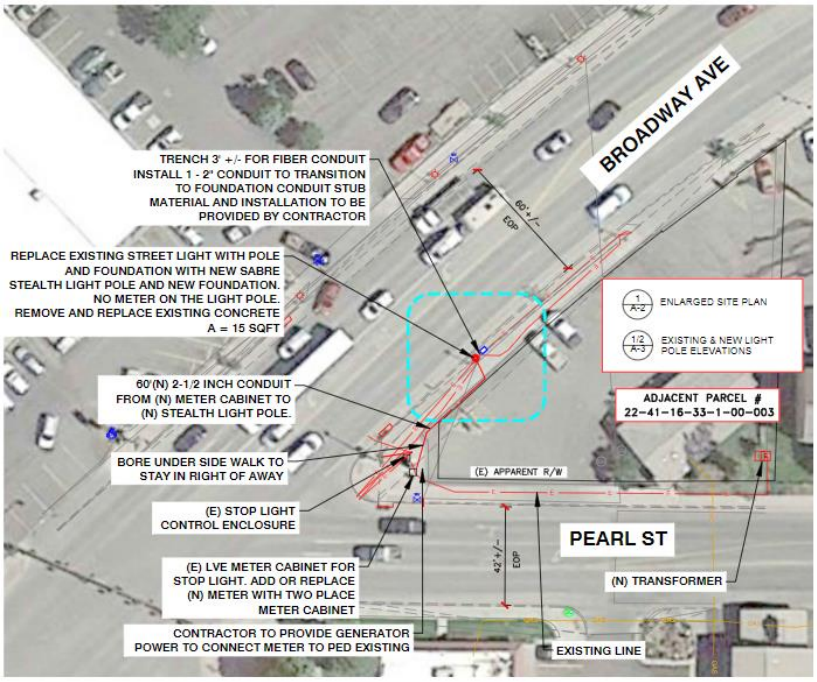
IDL07031F_R01 (1805 WHITEHOUSE DR)



IDL07034F_R03 (617 E HALL AVENUE)



IDL07035F_R01 (490 W BROADWAY AVE)



A.3(d). Except for eligible facilities requests: Is the proposed wireless communications facility to be used for the provision of "personal wireless services," as defined by 47 U.S.C. Section 332(c)(7)(c)(i), on a sole or comingled basis?

Applicant Response to A.3(d): AT&T, operating as a common carrier, provides commercial mobile radio services as well as wireless broadband Internet access services.

A.4(a). Application Fees

Applicant Response to A.4(a): AT&T will pay all applicable fees in the amounts established by the current fee schedule and will provide a receipt for any fees paid. AT&T agrees to pay consultant fees to the extent the fee amounts are reasonable, non-discriminatory and available in advance in accordance with the FCC Small Cell Order.[1]

A.5(a). Franchises, Authorizations and Licenses:

To have a complete application, the applicant must have: (a) authorization to use the public rights-of-way; (b) licenses to provide proposed services; and (c) authorization to use the proposed structure.

Applicant Response to A.5(a): The Town Council approved the Ordinance authorizing execution of the AT&T and Town of Jackson Franchise Agreement.

[1] *Accelerating Wireless and Wireline Broadband Deployment by Removing Barriers to Infrastructure Investment, Declaratory Ruling and Third Report and Order,* 33 FCC Rcd 9088 (2018), *vacated in part, City of Portland v. United States,* No. 18-72689 (9th Cir. Aug. 12, 2020).

Applicant Response to A.5(b): AT&T's FCC licenses are attached. See Exhibit A5(b) – Teton County WY ATT FCC Licenses.

Applicant Response A.5(c) and (d): AT&T is proposing replacement of city owned street light, Part (d) see exhibit.

A.6. Radio Frequency. Provide a statement by a certified RF engineer demonstrating and certifying that the proposed facility will comply with FCC RF standards.
Applicant Response to A.6: AT&T has provided an RF Compliance letter in accordance with the above required submission. See Exhibit A(6) – Town of Jackson CRAN AT& FCC CRAN Compliance Letter.

A.7. Dates of Commencement and Completion.
Applicant Response to A.7: The third party fiber company that is awarded the fiber bid will submit the fiber plans approximately 6 weeks after permit approvals. We expect to commence construction approximately 6 months after permit approvals and expect for all work associated with the site to be completed within 3 weeks after construction commencement. Construction start dates are dependent upon many factors outside of applicant's control, including weather, receipt of equipment and issuance of permits. We plan on commencing construction as soon as the weather permits in 2022.

Below is an estimated timeframe:

January 21, 2022: Town of Jackson Approval of Small Wireless Facilities
July 22, 2022: Approval of Third Party Fiber Installation as needed
May 13, 2022: Bid Awards and Project Coordination
May 27, 2022: Order and Receipt of Equipment
June 17, 2022: Pre-Construction Walks
July 11, 2022: Construction Start
August 12, 2022: Construction Complete

PART B: ADDITIONAL PERMITS

B.1. Ancillary Permits required for work in the Town in order to deploy the WFs which you contend must be issued (absent agreement or exceptional circumstances) no later than by the same time the Town must take action on the wireless application.

Applicant Response to B.1:
The new poles do not require any ancillary permits. To the extent pre-construction permits are required, we have not applied for this yet.

B.2. With respect to Ancillary Permissions please check one of the following.
Applicant Response to B.2: We have not applied for any ancillary permits. To the extent traffic control permits are required, we have not applied for those yet.

B.3. If you have not already applied for every permit or authorization, or initiated every review required in connection with the deployment of the facility, please indicate by checkmark whether you agree with the following:

Applicant Response to B.3: On the application, we have checked the box indicating our agreement that "any permit, authorization or review for which I have not identified and applied need not be issued by the time the Town is required to act on this application, and any time limits for action on such permit, authorization or review will not commence until I file complete applications for the same."

PART C: DETAILED APPLICATION REQUIREMENTS (RESPOND TO RELEVANT SECTIONS)

C.2(a). If you are proposing to install a WF on an existing support structure, or to replace an existing structure:

Applicant Response to C.2(a): Questions C.2(a)(1) through (12) AT&T is proposing to utilize or replace an existing structure. This application is for (3) Type II – Replacement Street Light poles.

(1) State if the application is for a replacement facility or a supporting structure at a location where there is not an existing support structure.

Applicant Response to C.2(a) 1: Replacement of Street Light poles.

(2) Identify the existing facility that will be utilized/replaced. In order to identify a facility, you must provide its GPS coordinates; the cross-streets and relative location of the facility in connection to the cross-streets; and the pole number or identifier, if any. For replacement structures, you must clearly identify where the replacement pole will be placed in relation to the existing pole.

Applicant Response to C.2(a)(2): See chart below:

Pole ID	Latitude	Longitude	Cross Streets	Relative Location in connection to cross-streets
IDL07031F_R01	43.4651323	-110.8114072	Whitehouse Drive and Park Loop Road	140' SOUTH OF THE S/W CORNER AT THEINTERSECTION OF WHITEHOUSE DRIVE AND PARK LOOP ROAD. SITE IS ON THEWEST SIDE OF WHITEHOUSE DRIVE IN A PARK STRIP. LIGHT POLE# N/A.
IDL07034F_R03	43.4753675	-110.7499307	Hall and Redmond St.	10' NORTH OF THE S/W CORNER AT THEINTERSECTION OF HALL AVE AND REDMOND ST. SITE IS ON THE NORTH SIDE OFHALL AVE IN A PARK STRIP.
IDL07035F_R01	43.478774	-110.769544	Broadway Ave and Pearl St.	60' NORTH OF THE S/W TRAFFIC SIGNALPOLE AT THE INTERSECTION OF BROADWAY AVE AND PEARL ST. SITE IS ON THEEAST SIDE OF BROADWAYS

				AVE IN A PARK STRIP.

(3) Identify the zoning classifications that apply on either side of the ROW where the WF will be installed, and any other special district that may overlay the zones.
Applicant Response to C.2(a)(3): See chart of adjacent zoning classifications below:

Pole ID	To the North	To the South	To the East	To the West	Special Districts
IDL07031F_R01	PUD-NL-3	PUD-NL-3	PUD-NL-3	PUD-NL-3	N/A
IDL07034F_R03	NL-5	NL-5	NL-5	PUD-NL-5	N/A
IDL07035F_R01	CR-2	CR-2	DC-1	DC-1	N/A

(4) If an existing structure will be replaced, provide a detailed description of the differences in the physical dimensions between the existing and replacement structure (including both visible and below-ground elements), and explain why any differences in any physical dimension are required.
Applicant Response to C.2(a)(4): See chart of adjacent zoning classifications below:

	Town of Jackson Standards-Fixture D (Light Poles)	Town of Jackson Standards-Fixture C (Light Poles)	AT&T Small Cell
Overall pole height	16’6”	16’6”	30’
Base Height	30”	30”	5’ 6”
Base Diameter	17”	17”	20”
Transition Pole Diameter	4.5”	4.5”	10.75”
Luminaire Height	15.5’	15.5’	15’
Foundation Diameter	2’	2’	3’

(5) If an existing structure will be utilized, provide measurements showing the dimensions of the existing support structure prior to and after the proposed work.
Applicant Response to C.2(a)(5): See chart of dimensions and location of all elements of the WF provided in C.2(a)(4):

(6) If an existing structure will be utilized, provide measurements showing the dimensions of the existing/replacement supporting structure after installation of the WF.
Applicant Response to C.2(a)(4): See chart of dimensions and location of all elements of the WF provided in C.2(a)(4):

(7) Provide measurements showing the dimensions and location of all elements of the proposed WF, other than the dimensions provided in response to question (a)(4)-(6); and the dimensions and locations of any WF that will be on or at the same location as the support structure after the proposed construction is completed. If no other facility, say so.

Applicant Response to C.2(a)(7): See chart of dimensions and location of all elements of the WF:

	IDL07031F_R01	IDL07034F_R03	IDL07035F_R01
Overall pole height	30’	30’	30’
Cannister Height	5’	5’	5’
Cannister Diameter	13”	13”	13”
Base Height	5’ 6”	5’ 6”	5’ 6”
Base Diameter	20”	20”	20”
Transition pole length	19’ 6”	19’ 6”	19’ 6”
Transition Pole Diameter	10.75”	10.75”	10.75”
Foundation Depth	7’ 1”	7’ 1”	7’ 1”
Luminaire Height	15’	15’	15’
Foundation Diameter	3’	3’	3’

(8) Unless the structure is a replacement structure, a description of all changes made to the support structure that is to be used for the attachment, and all work that will be required to install the proposed WF (excavation, strengthening, addition of guy wires and so on).
Applicant Response to C.2(a)(8): **N/A. Replacing Existing Structure.**

(9) For replacement structures, provide a plan and timetable for removal of the existing structure.
Applicant Response to C.2(a)(9):
January 21, 2022: Town of Jackson Approval of Small Wireless Facilities
July 22, 2022: Approval of Third Party Fiber Installation as needed
May 13, 2022: Bid Awards and Project Coordination
May 27, 2022: Order and Receipt of Equipment
June 17, 2022: Pre-Construction Walks
July 11, 2022: Construction Start
August 12, 2022: Construction Complete

(10) A copy of all approvals and/or permits for the existing facility that is to be used, or replaced.
Applicant Response to C.2(a)(10): **AT&T Wireless has executed a Master Lease Agreement with the Town of Jackson and WYDOT.**

(11) A showing that the replacement or existing structure and WF associated with the same, will be in compliance with existing conditions, whether or not it is in compliance with conditions as of the date of application. There must be a plan submitted for correction of any non-compliant condition.
Applicant Response to C.2(a)(11): **New Small Cell Wireless Structure is compliant with the Town of Jackson Small Cell infrastructure design standards.**

(12) If you have indicated that the WF proposed qualifies for treatment as a small wireless

facility attachment to an existing support structure under FCC rules, identify the facts you rely upon for that contention.

Applicant Response to C.2(a)(12): **This application is for replacement of existing structures and not attachments to existing structures.**

C.2(b) For WFs that involve placement of a new supporting structure:
(1) Identify the location of the proposed facility. In order to identify a facility, you must provide its GPS coordinates (latitude and longitude); the cross-streets and relative location of the facility in connection to the cross-streets.

Applicant Response to C.2(b)(1): See chart of dimensions and location of all elements of the WF:

Pole ID	Latitude	Longitude	Cross Streets	Relative Location in connection to cross-streets
IDL07031F_R01	43.4651323	-110.8114072	Whitehouse Drive and Park Loop Road	140’ SOUTH OF THE S/W CORNER AT THEINTERSECTION OF WHITEHOUSE DRIVE AND PARK LOOP ROAD. SITE IS ON THEWEST SIDE OF WHITEHOUSE DRIVE IN A PARK STRIP. LIGHT POLE# N/A.
IDL07034F_R03	43.4753675	-110.7499307	Hall and Redmond St.	10’ NORTH OF THE S/W CORNER AT THEINTERSECTION OF HALL AVE AND REDMOND ST. SITE IS ON THE NORTH SIDE OFHALL AVE IN A PARK STRIP.
IDL07035F_R01	43.478774	-110.769544	Broadway Ave and Pearl St.	60’ NORTH OF THE S/W TRAFFIC SIGNALPOLE AT THE INTERSECTION OF BROADWAY AVE AND PEARL ST. SITE IS ON THEEAST SIDE OF BROADWAYS AVE IN A PARK STRIP.

(2) Identify the zoning classifications that apply on either side of the ROW where the WF will be installed, and any other special district that may overlay the zones.
Applicant Response to C.2(b)(2): See chart of dimensions and location of all elements of the WF:

Pole ID	To the North	To the South	To the East	To the West	Special Districts
IDL07031F_R01	PUD-NL-3	PUD-NL-3	PUD-NL-3	PUD-NL-3	N/A
IDL07034F_R03	NL-5	NL-5	NL-5	PUD-NL-5	N/A
IDL07035F_R01	CR-2	CR-2	DC-1	DC-1	N/A

(3) Provide measurements showing the dimensions and location of all elements of the proposed WF, including the supporting structure. This should include both the visible and underground elements of the proposed supporting structure (e.g. the size and depth of any required foundation).
Applicant Response to C.2(b)(3): See chart of dimensions and location of all elements of the WF:

	IDL07031F_R01	IDL07034F_R03	IDL07035F_R01
Overall pole height	30’	30’	30’
Cannister Height	5’	5’	5’
Cannister Diameter	13”	13”	13”
Base Height	5’ 6”	5’ 6”	5’ 6”
Base Diameter	20”	20”	20”
Transition pole length	19’ 6”	19’ 6”	19’ 6”
Transition Pole Diameter	10.75”	10.75”	10.75”
Foundation Depth	7’ 1”	7’ 1”	7’ 1”
Luminaire Height	15’	15’	15’
Foundation Diameter	3’	3’	3’

(4) Are there above ground utility poles within 1000 feet on the same side of the street where you proposed to place a new structure?
Applicant Response to C.2(b)(4): No

(5) Are there above ground utility poles within 1000 feet on the opposite side of the street where you propose to place a new structure?
***Applicant Response to C.2(b)(5): At the location at* IDL07034F_R03 there are LVE utility poles that are on the opposite side of the street.**

(6) Are there any above ground vertical structures which can support a WF within 1000 feet of the proposed structure?
Applicant Response to C.2(b)(6): No

(7) Explain why you are not using the facilities identified in items (b)(4)-(6) for placement of the proposed WF. The response should include detail that will permit the Town to determine whether installation of a new structure is permitted.

Applicant Response to C.2(b)(7): We are not proposing any new structures, only replacing existing street lights.

(8) If you believe that the WF proposed qualifies for treatment as a small wireless facility attachment to a new support structure under FCC rules, please explain the basis for that contention.
Applicant Response to C.2(b)(8): All proposed facilities are small wireless facility because they do not exceed dimensional standards and otherwise meet the criteria to be considered SWF per 47 C.F.R. § 1.6002(l):

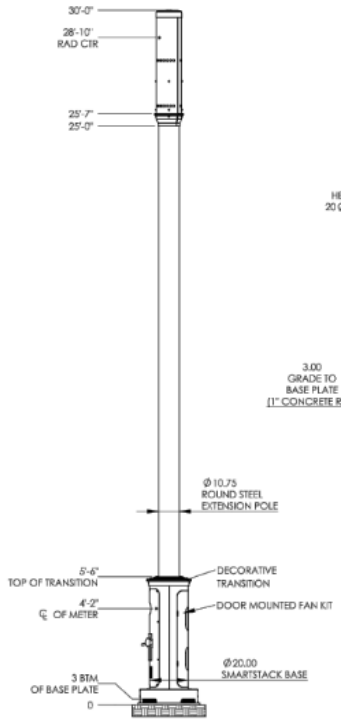
Standard	*Facilities Proposed in application*	*Qualifies as SWF*
Are mounted on structures 50 feet or less in height including their antennas as defined in section 1.1320(d)	***None of the facilities exceed 50 feet in height***	***Yes***
Each antenna associated with the deployment is no more than three cubic feet in volume	***Antennas are approximately 1.13 cubic feet in volume (radius of 5 inches x height of 24.9 inches)***	***Yes***
All other equipment is no more than 28 cubic feet in volume	***Equipment is contained in a base cabinet that is approximately 11 cubic feet in volume***	***Yes***
Facility does not require antenna structure registration	***Antenna structure registration is not required***	***Yes***
Facilities are no located on Tribal lands	***Facilities are not located on tribal lands***	***Yes***
RF exposure does not exceed applicable safety standards	***RF exposure does not exceed applicable safety standards***	***Yes***

C.2(c). To the extent not provided in response to subsections (a) or (b), provide a detailed description of the proposed WF, including the physical dimensions of all each element of the existing facility; and describe all modifications that will be made to the existing WF, including but not limited to the modifications that will be made to the existing support structure (increases in height, additional guying or strengthening, etc.), and identify the dimensions and all elements of the wireless facility after work proposed is completed.

Applicant Response to C.2(c): The Applicant has provided a detailed description of the facility including the physical dimensions of all elements.

All (3) proposed Type II Replacement streetlight poles meet the Town of Jackson Design Standards including: Conduit, mounting, bracket and other hardware is hidden from view; upper canister is 13"; equipment cabinet is 20" diameter.

Below is a diagram of the proposed pole design (all 3 are the same) including dimensions for each feature. Also see Exhibit C.2(o)(1) that includes a chart demonstrating the proposed facilities' compliance with each standard from the Town of Jackson Small Cell Infrastructure Design Standards.



C.2(d). In addition to Item c, identify what equipment, will be installed as part of the WF, and what will be removed (if anything), and the locations of equipment after work proposed is completed.

Applicant Response to C.2(d): The installation includes the pole, radios, meter, hand hole for connections to fiber and power. Equipment in the pole base includes the meter and power disconnect, RRH Radios, Fiber box, Diplexer, and load center. The transition cable skirt, omni-directional antenna, and RRH Radio are enclosed in the shroud at the pole top. Installing new luminaires with the installation of new small cell poles that match the existing City light standards.

C.2(e). In addition to item c, identify what ground cabinets, if any, will be added. State whether there are ground cabinets in the right of way within 1000 feet of the proposed installation, and identify their sizes.

Applicant Response to C.2(e): AT&T Wireless will not be installing any additional ground cabinets in the right-of-way as all AT&T equipment will be installed inside the small cell pole.

C.2(f). In addition to item c, identify what excavation or ground disturbance will be required, if any, and clearly identify where the excavation or ground disturbance will occur. If the work will affect any other structure or vegetation, that effect must be clearly identified. If non, say so.

Applicant Response to C.2(f): For each node location we will excavate an approximate 4 foot x 10 foot area for the pole replacement and handhole.

Site	***Location of Ground Disturbance***	***Area***	***Existing Conditions Size***	***Disturbance of structures/ vegetation***
IDL07031F_R01	Per drawings	4.5’ x 10’	Grass Park Strip	None
IDL07034F_R03	Per drawings	5’ x 10’	Grass Area	None
IDL07035F_R01	Per drawings	4’ x 10’	Pavers	None

C.2(g). In addition to item c, a description of the site and any deployment outside the site necessary to complete the proposed project.

Applicant Response to C.2(g): All 3 sites will include stamped concrete in the right-of-way next to large sidewalks. Outside of the 4 foot x 10 foot construction area in the right-of-way nothing else should be disturbed. Handhole for the fiber connection will be as close as possible to the 4’ x 10’ area of disturbance and is typically no more than 2’ to 3’ away from the pole foundation.

C.2.(h). Provide photographs showing the proposed site before the proposed installation, and photographic mock-ups showing the site after installation (multiple photographs should be submitted as required to show how the facility will look at the site from all angles), and provide a clear indication of the impact on adjoining properties and the corridor in which the WF will be placed. The photo simulations should include any landscaping that will be performed in connection with the project.

Applicant Response to C.2.(h): Before photos of the node location and photo-sims of the proposed project can be found on page S-1 of the CDs are provided below:

IDL07031F_R01– 1805 WHITEHOUSE DR

IDL07034F_R03– 617 E HALL AVENUE

IDL07035F_R01– 490 W BROADWAY AVE

C.2(i). Provide site plans detailing the proposed WF consistent with the requirements of FN.1, above.[2]

Applicant Response to C.2(i): The Applicant has included detailed site plans with this submission labeled as Construction Drawings.

C.2(j). Provide a report signed by a qualified Wyoming licensed professional engineer:

(1) Certifying that the structure to which the WF is to be attached will be able to support the WF as proposed; and

Applicant Response to C.2(j)(1): The Applicant is not proposing to attach the facility to an existing structure.

(2) Specifying any specific steps that should be taken to either ensure that the WF and its supporting structure are in compliance with applicable codes (e.g. foundational work required, requirements for placement of equipment, etc.); and

(3) Providing a list of the safety standards examined, along with a description of the methodology and assumptions used making the certification.

[2]We are unable to find a reference to FN.1.

Applicant Response to C.2.(j)(2) and (3): Please see attached document labeled Exhibit C(2)(j)(3) – 30 ft Small Cell Pole Structural Analysis – WY.

C.2(k). Provide a written description of the concealment elements applicant proposes to use to aesthetically blend the facility to the immediate surroundings and to minimize its visual impact. This should include, but not be limited to, a description of proposed concealment techniques, sizing and placement of elements of the WF (including undergrounding proposed), measures proposed to limit visibility of the WF from residential dwelling units, and the textures and colors to be used in the concealment process. If none, say so.

Applicant Response to C.2.(k): While not concealment elements, the proposed facility designs comply with the Town of Jackson Small Cell Infrastructure Design Standards:

Concealment Elements	***Size***	***Residential Dwelling Units***	***Textures and Colors***
Pole Height	30’ max	NA	Smooth, Green
Cantenna	13” OD	NA	Smooth, Green
Transition Pole	10.75” OD	NA	Smooth, Green
Base	20” OD	NA	Smooth, Green
Equipment Location	In pole base	NA	Smooth, Green

C.2(l). If the proposed facility is in an historic district, provide the information required by the applicable Land Development Regulations or Municipal Code section.

Applicant Response to C.2(l): None of the proposed facilities are located within a historic district.

C.2(m). If any landscaped ground will be disturbed, or landscaping is proposed as a concealment element, provide a landscape plan for the site, at a scale of 1/8” = 1’ or larger and including the following:

(1) Existing trees with trunk diameter over six inches (6”) at four feet (4’) above grade and/or fifteen feet (15’) in overall height within fifty feet (50’) of the proposed WF.

(2) Species, diameter and condition of all such trees;

(3) Final disposition of all existing trees; and

(4) Species, location and sizes of trees and other vegetation proposed to be installed in conjunction with the project.

If no landscaping is proposed, say so.

Applicant Response to C.2(m): No additional landscaping is proposed. Any disturbed area will be returned to their original condition or replaced, if needed, in accordance with Town Standards. To the extent anything in the ROW is damaged by the Applicant during construction, the Applicant will replace and restore the right-of-way to its original condition. No live landscape will be impacted by the construction and installation of the poles.

C.2(n). Demonstrate compliance with the Town's noise ordinance by providing, among other relevant information, a description of the facilities and/or equipment within the applicant's project that are expected to introduce or generate noise, as well as anticipated noise levels of said facilities and/or equipment at maximum output. For facilities that generate noise, please provide testing data showing the facility complies with the Wireless Telecommunications Facility Design Standards.

Applicant Response to C.2(n): The applicant states that the facility will comply with the Town of Jackson noise standard.

C.2(o). Justification for the WF

(1) Review the standards set forth in the Town of Jackson Wireless Telecommunications Facility Design Standards and the applicable sections of the Jackson Municipal Code, and for each standard explain why you believe the proposed facility satisfies the standard. If you do not believe it satisfies the standard, so state. You may cross-reference prior answers.

Applicant Response to C.2(o)(1): Please see Exhibit C2(o)(1), that demonstrates the proposed facilities comply with the Town of Jackson Wireless Telecommunication Standards (See Exhibit C.2(o)(1) – Compliance with Town of Jackson Wireless Telecommunications Standards and Municipal Code).

(2) Show the search area for the placement of the WF proposed, and explain why the particular location was chosen. If the search area is driven by the characteristics for particular frequency bands, identify those bands.

Applicant Response to C.2(o)(2): The proposed facilities are needed at the locations selected to improve the wireless services provided by these facilities. The search area was not driven by the characteristics for particular frequency bands. Also see Exhibit C(2)(o)(5) which shows service levels and also includes a statement from an AT&T RF Engineer setting forth the need and service objective for each facility.

(3) Provide a written assessment of alternative locations considered by the applicant and the reasons why said alternative locations were rejected as candidates.

Applicant Response to C.2(o)(3): We have attached an alternative site analysis for each candidate. Exhibit C.2 (o)(3) Light Replacement Alternative Analyses

(4) Provide a map of all existing WFs in the Town used by the wireless service provider who will be utilizing the proposed WF that serve any portion of the Town and show the coverage those facilities provide within the Town by frequency band.

Applicant Response to C.2(o)(4): We have provided a map of the AT&T macro sites in the Town of Jackson that depicts the relative service levels for each facility. See Exhibit C2(o)(4) – AT&T Existing Macro sites in Jackson.png.

(5) Provide a written report setting forth how and why the proposed WF will improve personal wireless services being provided by the wireless service provider. The answer may identify as an "improvement" any personal wireless service that the wireless service does not now provide, which it has a planned timetable to provide. The report shall identify areas where the wireless service provider has no coverage, a significant degradation in coverage, or "dead zones." The report shall include a capacity analysis, and/or a decibel level report to indicate the quality of service provided by the applicant both at present and after installation of the proposed wireless communication facility. In describing the improvements, applicant should identify the performance indicators that are used by the wireless provider to determine the adequacy of its services (whether for existing or planned personal wireless services), and show the projected improvement in those indicators if the proposed WF were approved.

Applicant Response to C.2(o)(5): The facilities proposed in this application will address significant AT&T service needs as described in the attached Exhibit C2(o)(5) – Town of Jackson CRAN AT&T Service Objectives.

Additionally, AT&T estimates that since the introduction of the iPhone in 2007, mobile data usage has increased 580,000% on its network. AT&T forecasts its customers' growing demand for mobile data services to continue. Customer needs require AT&T to design and maintain its network to provide and improve wireless signal quality. Areas that do not meet this minimal standard, or where wireless service is otherwise compromised, represent service issues that must be addressed.

Specifically, these proposed small wireless facilities will improve AT&T's wireless services by offloading network traffic carried by existing macro facilities in the area. In addition, faster data rates allow customers to get on and off the network quickly, which produces more efficient use of AT&T's limited spectrum. By placing the small wireless facility in areas where AT&T's existing wireless telecommunications facilities are constrained and where AT&T experiences especially high network traffic, AT&T can address the existing and forecasted demand and support 5G speeds in the near future.

Improving signal quality and increasing data speed is critical to providing the mobile experience customers demand and to manage the unprecedented increase in mobile data usage on AT&T's network. The Center for Disease Control and Prevention (CDC) tracks the rates at which American households are shifting from landlines to wireless telecommunications. According to the CDC's latest Wireless Substitution Report, nearly 80 percent of Americans rely exclusively or primarily on

wireless communications in their homes.[3] In addition, the National Emergency Number Association estimates that 80% of all 911 calls are made from wireless devices.[4] And with AT&T's selection by FirstNet as the wireless service provider to build and manage the nationwide first responder wireless network, each new or modified facility will help strengthen first responder communications.

AT&T selected the proposed facilities in consultation with the Town and as the best available means to address its service objectives in these areas in Jackson, Wyoming. The overall site location and design will comply with applicable code provisions and other published siting guidelines including the Jackson Small Cell Infrastructure Design Standards.

(6) Describe any smaller form factors that applicant or the wireless provider has used in rights-of-way in the last twenty-four (24) months, or that it is planning to use to provide service for facilities that include one (1), two (2) and three (3) frequency bands. Explain why a smaller form factor is not proposed here. The explanation should include strand-mounted facilities.

Applicant Response to C.2(o)(6): None.

(7) If applicant or wireless provider has undergrounded any portion of the WF in other communities in the last twenty four (24) months, or is planning to underground in another community, explain why it is not proposing similar undergrounding here.

7 C.2(p). Applicant certifies that, before commencing, during performance of and upon completion of, the work proposed, the permitted wireless facility will comply with all applicable laws, regulations, practices or other requirements under federal, state or local law, including but not limited to, building and electrical codes, and all required permits, authorizations will be received, and reviews completed.

Applicant Response to C.2(p): Applicant will comply as required and has checked the "yes" box on the application.

4. CLAIM TOWN IS REQUIRED TO ISSUE PERMIT

a) If it is contended that the Town is required by federal or state law to approve a proposed WF, other than an Eligible Facilities Request, applicant must submit the information it relies upon to support that claim, identifying: (i) the legal standard it claims applies; (ii) the showings it relies upon for its claim; (iii) alternative legal standards that may apply that it claims to meet; and (iv) the showings it relies upon for those claims. Applicants are cautioned that, should they choose not to submit with respect to items (iii) and (iv), and the Town believes that applicant misapplies or relies on the wrong legal standard, the waiver (and consequently the application) may be denied. In addition, the showing should be sufficient to show that the placement and size of each element of the WF must be approved by Town. For example, if applicant proposed a ground cabinet where one would not otherwise be permitted, but only

[3]https://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless202005-508.pdf

[4]"9-1-1 Statistics," National Emergency Number Association, 07/2018; https://www.nena.org/page/911Statistics

shows that some type of WF is required at the site proposed, the placement of the ground cabinet may be denied.

b) Any permit issued pursuant to this section will be subject to a contingency that, if any federal legal standard pursuant to which an application was granted changes or is invalidated, the permit will be terminate unless applicant shows that the proposed facility must be approved under applicable law.

PART D: CERTIFICATION (ALL APPLICANTS)

I (we) hereby certify under the potential denial of the encroachment permit and the revocation of any permit(s) granted based on this application that
(1) after diligent investigation, the information provided pursuant to this Application Form is true, accurate, and complete to the best of my (our)
knowledge and belief; and (2) upon completion of the work proposed, the permitted personal wireless services facility will comply with all applicable
laws, regulations, practices or other requirements under federal, state, or local law, including, but not limited to, building and electrical codes and the
Jackson Municipal Code, the FCC's radio frequency emissions standards, and the requirements of the Americans with Disabilities Act.
The Town may deny a permit, or revoke any permit issued, if the permit application contains false or misleading information.

11/29/2021
Applicant's Signature Date

Sharon Gray
Applicant's Printed Name

Real Estate Project Manager
Applicant's Title

TOWN OF JACKSON
APPLICATION FORM INSTRUCTIONS FOR WIRELESS ENCROACHMENT PERMIT: FACILITIES IN PUBLIC RIGHT-OF-WAY

In addition to obtaining and maintaining any other permit or franchise required for placement and operation of the proposed facility in the rights-of-way, the Jackson Municipal Code (the "Code") requires an encroachment permit prior to the construction or modification or repair of a wireless telecommunication facility ("WF"). Entities that are required by the Code to obtain an encroachment permit must apply for one using the attached form, which must be complete when submitted. Failure to submit a complete form may result in the application being declared incomplete, or rejected. The form must be submitted in hard copy, and in an electronic format that can be posted to the Town's website. The electronic copy must be of a quality so that all information is legible, and in a standard format readable without specialized software (e.g., .pdf).

Each application may be for up to ten (10) WFs, provided that the facilities are of similar Type, as that term is defined in the Town of Jackson Wireless Telecommunication Facility Design Standards.

When you are requested to provide the dimensions of a WF (or a supporting structure to which it will be attached), the dimensions should include all elements of a WF. For example, if the diameter of a supporting structure will change, that diameter should be identified. If the diameter will not change, but conduit will be added to or next to the supporting structure, it should be clear how far the conduit will extend from the structure, and whether it is flush-mounted or not.

If your response to a question includes attachments, label the attachments as exhibits that reference the Part and Question numbers. For example, for information requested in Part A, Question 5(a), label the documents: Exhibit A(5)(a).

It is up to you to determine what other authorizations and permits are required in addition to the encroachment permit. The Town is happy to meet with potential applicants to discuss the Town's permitting requirements, and to review designs prior to submission of an application. An appointment can be scheduled by calling the Town of Jackson Planning Department at (307) 733-0440.

If you are applying on behalf of another, a signed Letter of Authorization is required and may be obtained by calling the Town of Jackson Planning Department at (307) 733-0440.

TOWN OF JACKSON
APPLICATION FORM FOR WIRELESS ENCROACHMENT PERMIT:
FACILITIES IN PUBLIC RIGHT-OF-WAY

PART A: BASIC INFORMATION (ALL APPLICANTS)

FOR TOWN USE

Notes may be used to identify issues with application in more detail., or to mark a particular requirement "NA" "Complete" means information was provided, and it is not an affirmation that the Town has determined it is accurate.

1. Type of Application

Please check the applicable box(es) and provide the information required below as an attachment to this Application, along with a written explanation identifying the facts relied upon to support the claimed treatment. Please note that the reference to the FCC shot clocks does not bind the Town to those clocks, but is included as a matter of convenience and is designed to reference the rules that were effective at the time this application was prepared. The Town will only be bound to comply with the shot clocks to the extent required by law. References to CFR provisions refer to those provisions or their successor provisions.

a) **Check all that apply:**

☐ This is a request for a "neutral host" facility. (that is, the facility is designed to be used by more than one provider of personal wireless facilities).

☑ Applicant will own and control all parts of the WF, other than a support structure owned by a third party. (if a portion of the facility will be owned by a third party, is subject to an IRU, or will be operated or maintained by a third party, do not check this box)

☐ Complete
☐ Incomplete
Note: Multiple boxes may be checked

b) **Check one. This application is:**

☐ Eligible Facilities Requests. Applicant asserts that the application qualifies as an "eligible facilities request" (EFR) (as defined in 47 CFR § 1.6100(b)(3), or any successor provision). Applicant shall submit the information required in the Application Requirements Part A, Part B. and Part C.1. ***The applicable FCC shot clock is sixty (60) days***.

☑ Small Wireless Facility (Existing Structure). Applicant asserts that the application is being submitted for approval of a Collocation of a Small Wireless Facility, that is, the proposed facility both meets the definition of "small wireless facility" and is a "collocation" (both as defined by 47 C.F.R. § 1.6002). Replacements of existing structures are not "collocations." Applicant shall submit the information required in Part A, Part B and Part C.2, and C.4 is applicable. ***The applicable FCC shot clock is sixty (60) days.***

☐ Small Wireless Facility (New Structure). Applicant asserts that the application is being submitted for approval to deploy a Small Wireless Facility (as defined by 47 C.F.R. § 1.6002(l)) involving placement of a new structure. Replacements of existing structures are considered new structures. Applicant shall submit the information required in Part A, Part B and the Application Requirements Part C.2 and if applicable, C.4. ***The applicable FCC shot clock is ninety (90) days.***

☐ Complete
☐ Incomplete
Note: only one box should be checked

☐ Other Wireless Facility State or Federal Law Requires Town to Allow in the ROW. Applicant asserts that the application is being submitted for approval of a type of WF that state or federal laws require the Town to allow in the Town's ROW. If you checked this box, please attach an explanation of the basis for your assertion, including citations to supporting law, and state what FCC shot clock you assert applies to this application, if any. Submit the information required in the Application Requirements Part A, B, Part C.2 and C.4 is applicable.

☐ Permit Reissuance. Applicant asserts that the application is being submitted for the reissuance of a previously applied for and previously approved, and now expired, wireless encroachment permit. If you checked this box, please submit a copy of the original permit, any prior reissuances thereof, and the information required in the Application Requirements Section Part C.3 below, and Section C.4 if applicable.

2. Contact Information

☐ Complete
☐ Incomplete
NOTES

a) Applicant shall notify the Town of any changes to the information submitted within fifteen (15) calendar days following any such change.

i) Identity of franchisee:

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd floor, Atlanta, GA 30319
Email: VB1319@att.com (RMR Project Manager Veronica Bonilla)
Telephone: 800-836-6662

ii) Identity of applicant:

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd floor, Atlanta, GA 30319
Email: VB1319@att.com (RMR Project Manager Veronica Bonilla)
Telephone: 800-836-6662

☐ Complete
☐ Incomplete
[Note: Must be more than one contact for neutral host]

iii) Identity of the person or persons that will respond to questions regarding this application. If a facility is a "neutral host" facility, a name must be provided of a person or persons who can attest to the answer to questions regarding the facilities and their operation.

Name: Sharon Gray
Address: 1997 Annapolis Exchange, Pkwy Suite 200, Annapolis, MD 21401
Email: sharon.gray@smartlinkgroup.com
Telephone: 469-693-6289

iv) Identity of the any person who will own, control, operate or maintain any part of the proposed WF, other than a support structure owned by a third party.

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd floor, Atlanta, GA 30319
Email: VB1319@att.com (RMR Project Manager Veronica Bonilla)
Telephone: 800-836-6662

☐ Complete
☐ Incomplete
[Note: Must be more than one name if 2nd box in 1.a is checked]

☐ Complete
☐ Incomplete
NOTES

v) Identity of a contact person available to respond 24/7 to emergencies, or requests to shut down facilities.

Name: New Cingular Wireless PCS, LLC
Address: 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319
Email: VB1319@att.com (RMR Project Manager Veronica Bonilla)
Telephone: 469-693-6289

☐ Complete
☐ Incomplete
NOTES

vi) Identity of the contractor that will be performing the work.

Name: Sumanth Chejarla- OVERLAND CONTRACTING INC.
Address: 600 North Greenfield Parkway, Garner, NC, 27529

Email: chejarlas@bv.com
Telephone: 650-580-4955

3. Purpose of Wireless Telecommunications Facility/Overview of Project

☐ Complete
☐ Incomplete

a) Please provide a brief description of the project for which the permit is sought.

NOTES

b) Attach a map showing the location of the proposed WF (the electronic version should link to a map that can be opened in Google Earth, or a similar, generally available program).

☐ Complete
☐ Incomplete
NOTES

c) Except for eligible facilities requests: if the application is part of the development of a wireless network, please describe that network, including the number of facilities and the manner in which they will be connected (and whether excavation will be required, and if so, where), and provide a map (see requirements for part 3(b)) showing the location of all facilities.

☐ Complete
☐ Incomplete
NOTES

d) Except for eligible facilities requests: Is the proposed wireless communications facility to be used for the provision of "personal wireless services," as defined by 47 U.S.C. Section 332(c)(7)(C)(i), on a sole or comingled basis?

☐ Complete
☐ Incomplete
[Note: One box must be checked and additional information may be required]

☑ No. Specify the type(s) of wireless communications services to be provided using the proposed facility: _____.

☐ Yes. Specify the type(s) of personal wireless services:_____
_____
_____

e) Except for eligible facilities requests: Identify the purpose of the proposed WF, including, specifically, the service objectives, and the specific personal wireless service problems that would be addressed by the facility. A neutral host should provide information that demonstrates that the proposed WF is not being built speculatively.

☐ Complete
☐ Incomplete
NOTES

☐ Complete
☐ Incomplete
NOTES

4. Application Fees

a) Applicant shall pay all applicable fees in the amounts established by the current fee schedule. In the event applicant has pre-paid all or a portion of applicable fees, please include a copy of the receipt from that transaction.

☐ Complete
☐ Incomplete
NOTES

b) Applicant must sign the following:
As required by the Town Code, applicant agrees to pay all costs reasonably incurred by the Town in reviewing the application, including costs incurred in retaining outside consultants, and understands that the validity of any permit depends upon payment of that fee.

Signed: Sharon Gray
Title: Real Estate Project Manager

☐ Complete
☐ Incomplete
NOTES

5. Franchises, Authorizations and Licenses

To have a complete application, the applicant must have: (a) authorization to use the public rights-of-way; (b) licenses to provide proposed services; and (c) authorization to use the proposed structure.

a) Does applicant have an existing franchise or other authorization to place WFs in the public rights-of-way?

☐ No.
If no, the application will be considered incomplete unless applicant requests that authorization from the Town (see Part B).

☑ Yes.
If yes, include a copy of the related documentation.

☐ Complete
☐ Incomplete
[Note: One box must be checked, and additional information may be required.]

b) Has applicant (or other person identified in this application) obtained all applicable licenses or other authorizations to provide the services proposed in connection with the application, whether required by the Federal Communications Commission or any other federal, state or local agency with authority over the proposed services? ☐ No. ☑ Yes. If yes, submit related documentation such as FCC licenses or authorizations and any other certificate, license or authorization.	☐ Complete ☐ Incomplete [Note: One box must be checked, and additional information may be required.]
c) Is the proposed WF to be attached to a structure owned or controlled by a third party (not the owner of the proposed WF)? ☑ No. ☐ Yes.	☐ Complete ☐ Incomplete [Note: if answer to 9(c) is "no," skip (d).
d) Do you have an agreement with that person to use the facility? ☐ No. If no, the application will be considered incomplete. ☑ Yes. If yes, provide a copy of the authorization or license to use the structure.	☐ Application is Complete ☐ Application is Incomplete [Note: If answer to (c) was yes, application is only complete if "yes" is checked and additional information provided]

6. **Radio Frequency.** Provide a statement by a certified RF engineer demonstrating and certifying that the proposed facility will comply with FCC RF standards. The Town reserves the right to require, in its sole discretion, a study by a qualified RF engineer demonstrating and certifying that the proposed facility will comply with FCC RF standards. Any conditions on the certification (e.g., steps that should be taken to prevent exposures) must be identified. The study should be performed consistent with accepted practices, taking into account cumulative exposures from all relevant sources. The methodology and calculations used to determine exposures must be clear, and all sources considered in performing the calculation, the equipment and emissions levels must be identified. The study must clearly identify any area, in any plane, where the occupational or general public exposures limits will be exceeded.

☐ Complete
☐ Incomplete
NOTES

7. **Dates of Commencement and Completion**. For each individual facility location provide a statement detailing 1) the date you will begin work in the right-of-way, 2) the date you will complete work in the right-of-way, and 3) the date of the final walkthrough.

☐ Complete
☐ Incomplete
NOTES

8. **Financial Assurance Requirement:** Applicant shall provide financial assurance per WF applied for in this Application in accordance with the Town of Jackson Public Works Department standard financial assurance schedule. The financial assurance shall be returned after the Town has verified through a final site inspection that the WF was constructed in compliance with this Application and any associated approval.

☐ Complete
☐ Incomplete
NOTES

PART B: ADDITIONAL PERMITS

1. Based on the work proposed in connection with this project, identify any and all additional permits, approvals, or agreements ("Ancillary Permissions") that will be required for any work within the boundaries of the Town in order to deploy the WFs which you contend must be issued (absent agreement or exceptional circumstances) no later than by the same time the Town must take action on the wireless application. It is your responsibility to review Code and policies and other state or FCC regulations applicable to the deployment of the WF within the Town and identify every Ancillary Permission that will be sought in conjunction with that deployment. The failure to conduct the investigation and to accurately identify all Ancillary Permissions may be grounds for denying the application or for declaring it incomplete. For example, if the WF would be placed on a structure where historical review would be required at the state, federal or local level, the applications required for that review must be identified and submitted timely.

☐ Complete
☐ Incomplete
NOTES

2. With respect to Ancillary Permissions please check one of the following:

☑ I have not applied for, or obtained any Ancillary Permissions.
☐ I have applied for or obtained Ancillary Permissions.

If you have already sought or obtained Ancillary Permissions, please identify the entity from whom you have sought/obtained approval, and provide a copy of the final permit, or the applicable code if the application is still pending.

☐ Complete
☐ Incomplete
NOTES

3. If you have not already applied for every permit or authorization, or initiated every review required in connection with the deployment of the facility, please indicate by checkmark whether you agree with the following:

☑ I agree that any permit, authorization or review for which I have not identified and applied need not be issued by the time the Town is required to act on this application, and any time limits for action on such permit, authorization or review will not commence until I file complete applications for the same.

If you do not check the box in response to item 3 *this application will be incomplete unless you have filed complete applications for all permits, authorizations or reviews that may be required prior to deployment. This requirement is inserted strictly to ensure compliance with federal standards for action on permits and authorizations and reviews required in connection with an application. The Town recognizes that as normal practice the same may be applied for after placement review is completed, and the Town does not intend to require departure from that practice as long as review can be conducted consistent with FCC regulations.*

☐ Complete
☐ Incomplete
Note: list need not be provided if box for item 3 is checked, and item 2 is completed.

PART C: DETAILED APPLICATION REQUIREMENTS (RESPOND TO RELEVANT SECTIONS)

1. ELIGIBLE FACILITIES REQUESTS: ***For an application asserted to be an eligible facilities request***, the application must provide the following information:

a) Identify the existing facility that will be modified; the existing WF that is installed on that facility; and provide a complete copy of the documents authorizing placement of the existing facility that is to be modified, including the original and any modifications to the authorizations. In order to identify a facility, you must provide its GPS coordinates; the cross-streets and relative location of the facility in connection to the cross-streets; and the pole number or identifier, if any.

☐ Complete
☐ Incomplete
NOTES

b) A description of all changes made to the existing facility that is to be modified (whether or not approved) including a description of the changes in height from January 22, 2012.

☐ Complete
☐ Incomplete
NOTES

c) Provide proof that applicant is authorized to modify the existing facility, and provide any lease for use of the existing facility. Such submissions need not disclose financial terms.

☐ Complete
☐ Incomplete
NOTES

d) If not clearly shown as part of the lease, or other authorization for the existing facility, identify and provide proof of the boundaries defining the site where the existing facility is placed.

☐ Complete
☐ Incomplete
NOTES

e) Will the existing supporting structure be replaced as part of the work proposed?
☑ Yes.
☐ No.

☐ Complete
☐ Incomplete
Note: if yes is checked, this is not an eligible facilities request and the EFR should be denied in writing.

f) Provide a detailed description of the existing wireless facility, including the physical dimensions of each element of the existing facility; and describe all the modifications that will be made to the wireless facility, including but not limited to the modifications that will be made to the existing support structure (increases in height, additional guying or other strengthening), and identify the dimensions and all elements of the wireless facility after work proposed is completed.

☐ Complete
☐ Incomplete
NOTES

g) In addition to Item b, identify what equipment, if any, will be added to the existing facility, and what will be removed, and the locations of equipment after the work proposed is completed.

☐ Complete
☐ Incomplete
NOTES

h) In addition to item g, identify what ground cabinets, if any, will be added. If none, say so.

☐ Complete
☐ Incomplete
NOTES

i) In addition to item g, identify what excavation or ground disturbance will be required, if any, and clearly identify where the excavation will occur. If the work will affect any other structure,

☐ Complete
☐ Incomplete

	or vegetation, that effect must be clearly identified. If no excavation or ground disturbance, say so.	NOTES
j)	Provide photographs showing the site proposed before the proposed installation, and photographic mock-ups and scale drawings showing the site after installation (multiple photographs should be submitted as required to show how the facility will look at the site from all angles).	☐ Complete ☐ Incomplete NOTES
k)	Provide site plans detailing proposed improvements in accordance with the attached Wireless Encroachment Permit Application Checklist. Drawings must depict improvements related to the applicable requirements including property boundaries, setbacks, topography, elevation sketch, and dimensions and other elements of proposed.	☐ Complete ☐ Incomplete NOTES
l)	Provide a report signed by a Wyoming licensed professional engineer: (1) Certifying that the structure to which the WF is to be attached will be able to support the WF as proposed; and (2) Specifying any specific steps that should be taken to either ensure that the WF and its supporting structure are in compliance with applicable codes (e.g. additional foundational work required, requirements for placement of equipment, etc.) or providing a list of the safety standards examined, along with a description of the methodology and assumptions used making the certification.	☐ Complete ☐ Incomplete NOTES
m)	Describe the concealment elements, if any, associated with the facilities as they will be modified, including but not limited to painting, and shielding as modified. The showing should be sufficient to demonstrate that the modifications will not defeat any existing concealment elements. If in an historic district please show compliance with requirements for that district. If there will be no concealment elements, so state.	☐ Complete ☐ Incomplete NOTES
n)	Identify all the conditions that were placed upon the base station or tower which is to be modified, or to which it was subject under the Town Code, and for each condition, demonstrate that the facility is in compliance with the conditions, and that the conditions will continue to be satisfied after modification. For example, applicant should submit studies as required to demonstrate that the modified facility will comply with applicable noise limits. For any condition where the WF is not now, or after modification will no longer be in compliance, provide a clear description of the variation from the underlying conditions, explain any steps proposed for compliance, and explain why applicant believes the facility is nonetheless an eligible facility. ☐ Check if included - see Exhibit ___	☐ Complete ☐ Incomplete NOTES

o) Applicant certifies that, before commencing, during performance of and upon completion of, the work proposed, the permitted wireless facility will comply with all applicable laws, regulations, practices or other requirements under federal, state or local law, including but not limited to, building and electrical codes, and all required permits, authorizations will be received, and reviews completed. ☑ Yes. ☐ No.	☐ Complete ☐ Incomplete NOTES
2. ALL OTHER Right-of-Way APPLICATIONS: *For all other types of applications*, the following must be provided:	
a) If you are proposing to install a WF on an existing support structure, or to replace an existing structure:	
(1) State if the application is for a replacement facility or a supporting structure at a location where there is not an existing support structure.	☐ Complete ☐ Incomplete NOTES
(2) Identify the existing facility that will be utilized/replaced. In order to identify a facility, you must provide its GPS coordinates; the cross-streets and relative location of the facility in connection to the cross-streets; and the pole number or identifier, if any. For replacement structures, you must clearly identify where the replacement pole will be placed in relation to the existing pole.	☐ Complete ☐ Incomplete NOTES
(3) Identify the zoning classifications that apply on either side of the ROW where the WF will be installed, and any other special district that may overlay the zones.	☐ Complete ☐ Incomplete NOTES
(4) If an existing structure will be replaced, provide a detailed description of the differences in the physical dimensions between the existing and replacement structure (including both visible and below-ground elements), and explain why any differences in any physical dimension are required.	☐ Complete ☐ Incomplete Note that if there is a response to 4, 5-6 will be skipped
(5) If an existing structure will be utilized, provide measurements showing the dimensions of the existing support structure prior to and after the proposed work.	☐ Complete ☐ Incomplete NOTES
(6) If an existing structure will be utilized, provide measurements showing the dimensions of the existing/replacement supporting structure after installation of the WF.	☐ Complete ☐ Incomplete NOTES
(7) Provide measurements showing the dimensions and location of all elements of the proposed WF, other than the dimensions provided in response to question (a)(4)-(6); and the dimensions and locations of any WF that will be on or at the same location as the	☐ Complete ☐ Incomplete

	support structure after the proposed construction is completed. If no other facility, say so.	NOTES
(8)	Unless the structure is a replacement structure, a description of all changes made to the support structure that is to be used for the attachment, and all work that will be required to install the proposed WF (excavation, strengthening, addition of guy wires and so on).	☐ Complete ☐ Incomplete NOTES
(9)	For replacement structures, provide a plan and timetable for removal of the existing structure.	☐ Complete ☐ Incomplete NOTES
(10)	A copy of all approvals and/or permits for the existing facility that is to be used, or replaced.	☐ Complete ☐ Incomplete NOTES
(11)	A showing that the replacement or existing structure and WF associated with the same, will be in compliance with existing conditions, whether or not it is in compliance with conditions as of the date of application. There must be a plan submitted for correction of any non-compliant condition.	☐ Complete ☐ Incomplete NOTES
(12)	If you have indicated that the WF proposed qualifies for treatment as a small wireless facility attachment to an existing support structure under FCC rules, identify the facts you rely upon for that contention.	☐ Complete ☐ Incomplete NOTES
b)	For WFs that involve placement of a new supporting structure:	☐ Complete ☐ Incomplete Note no answer required to b unless it is for a new supporting structure
(1)	Identify the location of the proposed facility. In order to identify a facility, you must provide its GPS coordinates (latitude and longitude); the cross-streets and relative location of the facility in connection to the cross-streets.	
(2)	Identify the zoning classifications that apply on either side of the ROW where the WF will be installed, and any other special district that may overlay the zones.	☐ Complete ☐ Incomplete NOTES
(3)	Provide measurements showing the dimensions and location of all elements of the proposed WF, including the supporting structure. This should include both the visible and underground elements of the proposed supporting structure (e.g. the size and depth of any required foundation).	☐ Complete ☐ Incomplete NOTES

(4) Are there aboveground utility poles within 1000 feet on the same side of the street where you proposed to place a new structure?

☐ Yes.
If yes, describe the height and diameter of those poles, and identify the distance to the poles within 1000 feet.

☑ No.

☐ Complete
☐ Incomplete
NOTES

(5) Are there aboveground utility poles within 1000 feet on the opposite side of the street where you propose to place a new structure?

☑ Yes.
If yes, describe the height and diameter of those poles, and identify the distance to those structures from the proposed site.

☐ No.

☐ Complete
☐ Incomplete
NOTES

(6) Are there any aboveground vertical structures which can support a WF within 1000 feet of the proposed structure?

☐ Yes.
If yes, describe those structures, and identify the distance to those structures from the proposed site.

☑ No.

☐ Complete
☐ Incomplete
NOTES

(7) Explain why you are not using the facilities identified in items (b)(4)-(6) for placement of the proposed WF. The response should include detail that will permit the Town to determine whether installation of a new structure is permitted.

☐ Complete
☐ Incomplete
NOTES

(8) If you believe that the WF proposed qualifies for treatment as a small wireless facility attachment to a new support structure under FCC rules, please explain the basis for that contention.

☐ Complete
☐ Incomplete
NOTES

c) To the extent not provided in response to subsections (a) or (b), provide a detailed description of the proposed WF, including the physical dimensions of all each element of the existing facility; and describe all the modifications that will be made to any existing WF, including but not limited to the modifications that will be made to the existing support structure (increases in height, additional guying or other strengthening, etc.), and identify the dimensions and all elements of the wireless facility after work proposed is completed. If already provided, you may cross-reference the relevant portion of your answer.

☐ Complete
☐ Incomplete
NOTES

d) In addition to Item c, identify what equipment, will be installed as part of the WF, and what will be removed (if anything), and the locations of equipment after work proposed is completed.

☐ Complete
☐ Incomplete
NOTES

e) In addition to item c, identify what ground cabinets, if any, will be added. State whether there are ground cabinets in the right of way within 1000 feet of the proposed installation, and identify their sizes. If none, say so.

☐ Complete
☐ Incomplete
NOTES

f) In addition to item c, identify what excavation or ground disturbance will be required, if any, and clearly identify where the excavation or ground disturbance will occur. If the work will affect any other structure, or vegetation, that effect must be clearly identified. If none, say so.

☐ Complete
☐ Incomplete
NOTES

g) In addition to item c, a description of the site and any deployment outside the site necessary to complete the proposed project.

☐ Complete
☐ Incomplete
NOTES

h) Provide photographs showing the proposed site before the proposed installation, and photographic mock-ups showing the site after installation (multiple photographs should be submitted as required to show how the facility will look at the site from all angles), and provide a clear indication of the impact on adjoining properties and the corridor in which the WF will be placed. The photosimulations should include any landscaping that will be performed in connection with the project.

☐ Complete
☐ Incomplete
NOTES

i) Provide site plans detailing the proposed WF consistent with the requirements of FN.1, above.

☐ Complete
☐ Incomplete
NOTES

j) Provide a report signed by a qualified Wyoming licensed professional engineer:

(1) Certifying that the structure to which the WF is to be attached will be able to support the WF as proposed; and

(2) Specifying any specific steps that should be taken to either ensure that the WF and its supporting structure are in compliance with applicable codes (e.g. foundational work required, requirements for placement of equipment, etc.); and

(3) Providing a list of the safety standards examined, along with a description of the methodology and assumptions used making the certification.

☐ Complete
☐ Incomplete
NOTES

k) Provide a written description of the concealment elements applicant proposes to use to aesthetically blend the facility to the immediate surroundings and to minimize its visual impact. This should include, but not be limited to, a description of proposed concealment techniques, sizing and placement of elements of the WF (including undergrounding proposed), measures proposed to limit visibility of the WF from residential dwelling units, and the textures and colors to be used in the concealment process. If none, say so.

☐ Complete
☐ Incomplete
NOTES

l) If the proposed facility is in an historic district, provide the information required by the applicable Land Development Regulations or Municipal Code section.	☐ Complete ☐ Incomplete NOTES
m) If any landscaped ground will be disturbed, or landscaping is proposed as a concealment element, provide a landscape plan for the site, at a scale of 1/8”=1’ or larger and including the following:	☐ Complete ☐ Incomplete NOTES
(1) Existing trees with trunk diameter over six inches (6”) at four feet (4’) above grade and/or fifteen feet (15’) in overall height within fifty feet (50’) of the proposed WF;	
(2) Species, diameter and condition of all such trees;	
(3) Final disposition of all existing trees; and	
(4) Species, location and sizes of trees and other vegetation proposed to be installed in conjunction with the project.	
If no landscaping is proposed, say so.	
n) Demonstrate compliance with the Town’s noise ordinance by providing, among other relevant information, a description of the facilities and/or equipment within the applicant’s project that are expected to introduce or generate noise, as well as anticipated noise levels of said facilities and/or equipment at maximum output. For facilities that generate noise, please provide testing data showing the facility complies with the Wireless Telecommunication Facility Design Standards.	☐ Complete ☐ Incomplete NOTES
o) Justification for the WF:	☐ Complete
(1) Review the standards set forth in the Town of Jackson Wireless Telecommunication Facility Design Standards and the applicable sections of the Jackson Municipal Code, and for each standard explain why you believe the proposed facility satisfies the standard. If you do not believe it satisfies a standard, so state. You may cross-reference prior answers.	☐ Incomplete NOTES
(2) Show the search area for placement of the WF proposed, and explain why the particular location was chosen. If the search area is driven by the characteristics for particular frequency bands, identify those bands.	☐ Complete ☐ Incomplete NOTES
(3) Provide a written assessment of alternative locations considered by the applicant and the reasons why said alternative locations were rejected as candidates.	☐ Complete ☐ Incomplete NOTES
(4) Provide a map of all existing WFs in the Town used by the wireless service provider who will be utilizing the proposed WF that serve any portion of the Town and show the coverage those facilities provide within the Town by frequency band.	☐ Complete ☐ Incomplete NOTES
(5) Provide a written report setting forth how and why the proposed WF will improve personal wireless services being provided by the wireless service provider. The answer may	☐ Complete ☐ Incomplete

identify as an “improvement” any personal wireless service that the wireless service provider does not now provide, which it has a planned timetable to provide. The report shall identify areas where the wireless service provider has no coverage, a significant degradation in coverage, or “dead zones.” The report shall include a capacity analysis, a propagation analysis, and/or a decibel level report to indicate the quality of service provided by the applicant both at present and after installation of the proposed wireless communication facility. In describing the improvements, applicant should identify the performance indicators that are used by the wireless provider to determine the adequacy of its services (whether for existing or planned personal wireless services), and show the projected improvement in those indicators if the proposed WF were approved. *Do not include performance indicators for services that are not personal wireless services.*

NOTES

(6) Describe any smaller form factors that applicant or the wireless provider has used in rights-of-way in the last twenty-four (24) months, or that it is planning to use to provide service for facilities that include one (1), two (2) and three (3) frequency bands. Explain why a smaller form factor is not proposed here. The explanation should include strand-mounted facilities.

☐ Complete
☐ Incomplete
NOTES

(7) If applicant or wireless provider has undergrounded any portion of the WF in other communities in the last twen (24) months, or is planning to underground in another community, explain why it is not proposing similar undergrounding here.

☐ Complete
☐ Incomplete
NOTES

p) Applicant certifies that, before commencing, during performance of and upon completion of, the work proposed, the permitted wireless facility will comply with all applicable laws, regulations, practices or other requirements under federal, state or local law, including but not limited to, building and electrical codes, and all required permits, authorizations will be received, and reviews completed.
☑ Yes.
☐ No.

☐ Complete
☐ Incomplete
Note: a “no” may make the application subject to denial.

3. REISSUANCE OF PERMIT

If applicant requests a permit reissuance and no modifications are proposed to the facility that was the subject of the previous permit, provide the information required by this section.

a) Identify the permit that is to be reissued.

☐ Complete
☐ Incomplete
NOTES

b) Provide a copy of the application and any approvals related to the WF, including approved modifications.

☐ Complete
☐ Incomplete
NOTES

c) If applicable and not already included in the materials provided in response to subsection (b) above, provide photographs of the WF in place. Provide photos from multiple angles, so that all elements of the WF are shown.

☐ Complete
☐ Incomplete
NOTES

d) If applicable and not already included in the materials provided in response to subsection (b) above, provide drawings of the WF, and identify all equipment (whether part of the WF or not) located on the support structure on which the WF is located. The drawings must show the dimensions of all elements of the WF, and without limitation include the dimensions of the supporting structure.

☐ Complete
☐ Incomplete
NOTES

e) Demonstrate that there is a continuing need for the facility, and that its visual impact may not be reduced by providing the information required under subsection 2(n).

☐ Complete
☐ Incomplete
NOTES

4. CLAIM TOWN IS REQUIRED TO ISSUE PERMIT

a) If it is contended that the Town is required by federal or state law to approve a proposed WF, other than an Eligible Facilities Request, applicant must submit the information it relies upon to support that claim, identifying: (i) the legal standard it claims applies; (ii) the showings it relies upon for its claim; (iii) alternative legal standards that may apply that it claims to meet; and (iv) the showings it relies upon for those claims. Applicants are cautioned that, should they choose not to submit with respect to items (iii) and (iv), and the Town believes that applicant misapplies or relies on the wrong legal standard, the waiver (and consequently the application) may be denied. In addition, the showing should be sufficient to show that the placement and size of each element of the WF must be approved by Town. For example, if applicant proposed a ground cabinet where one would not otherwise be permitted, but only shows that some type of WF is required at the site proposed, the placement of the ground cabinet may be denied.

☐ Complete
☐ Incomplete
NOTES

b) Any permit issued pursuant to this section will be subject to a contingency that, if any federal legal standard pursuant to which an application was granted changes or is invalidated, the permit will be terminate unless applicant shows that the proposed facility must be approved under applicable law.

☐ Complete
☐ Incomplete
NOTES

PART D: CERTIFICATION (ALL APPLICANTS)

I (we) hereby certify under the potential denial of the encroachment permit and the revocation of any permit(s) granted based on this application that (1) after diligent investigation, the information provided pursuant to this Application Form is true, accurate, and complete to the best of my (our) knowledge and belief; and (2) upon completion of the work proposed, the permitted personal wireless services facility will comply with all applicable laws, regulations, practices or other requirements under federal, state, or local law, including, but not limited to, building and electrical codes and the Jackson Municipal Code, the FCC's radio frequency emissions standards, and the requirements of the Americans with Disabilities Act.

The Town may deny a permit, or revoke any permit issued, if the permit application contains false or misleading information.

Sharon Gray _____ 11/29/2021

Applicant's Signature Date

Sharon Gray _____ Real Estate Project Manager

Applicant's Printed Name Applicant's Title

[end of document]

LETTER OF AUTHORIZATION

New Cingular Wireless PCS, LLC ,"Owner" whose address is: 1025 Lenox Park Blvd NE, 3rd Floor; Atlanta, FA 30319

(NAME OF ALL INDIVIDUALS OR ENTITY OWNING THE PROPERTY)

_____, as the owner of property more specifically legally described as: New Small Wireless Facility Poles to be installed

_____

_____

(If too lengthy, attach description)

HEREBY AUTHORIZES Taylor Sanford of Smartlink Group **as agent to represent and act for Owner in making application for and receiving and accepting on Owners behalf, any permits or other action by the Town of Jackson, or the Town of Jackson Planning, Building, Engineering and/or Environmental Health Departments relating to the modification, development, planning or replatting, improvement, use or occupancy of land in the Town of Jackson. Owner agrees that Owner is or shall be deemed conclusively to be fully aware of and to have authorized and/or made any and all representations or promises contained in said application or any Owner information in support thereof, and shall be deemed to be aware of and to have authorized any subsequent revisions, corrections or modifications to such materials. Owner acknowledges and agrees that Owner shall be bound and shall abide by the written terms or conditions of issuance of any such named representative, whether actually delivered to Owner or not. Owner agrees that no modification, development, platting or replatting, improvement, occupancy or use of any structure or land involved in the application shall take place until approved by the appropriate official of the Town of Jackson, in accordance with applicable codes and regulations. Owner agrees to pay any fines and be liable for any other penalties arising out of the failure to comply with the terms of any permit or arising out of any violation of the applicable laws, codes or regulations applicable to the action sought to be permitted by the application authorized herein.**

Under penalty of perjury, the undersigned swears that the foregoing is true and, if signing on behalf of a corporation, partnership, limited liability company or other entity, the undersigned swears that this authorization is given with the appropriate approval of such entity, if required.

OWNER:

_____

(SIGNATURE) (SIGNATURE OF CO-OWNER)

Title: Area Manager

(if signed by officer, partner or member of corporation, LLC (secretary or corporate owner) partnership or other non-individual Owner)

STATE OF Colorado)

)**SS.**

COUNTY OF Arapahoe)

The foregoing instrument was acknowledged before me by Mark Johns this 23 day of October, 2020.

WITNESS my hand and official seal.

_____ **(Seal)**

(Notary Public)

My commission expires:

GLENDA KAY HUDSON
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20204026442
MY COMMISSION EXPIRES JULY 31, 2024

PROJECT DESCRIPTION

- AT&T TO REPLACE EXISTING LIGHT POLE WITH NEW 30'-0" METAL SABRE SMARTSTACK STEALTH LIGHT POLE
- INSTALL CANISTER ANTENNA ON NEW MOUNT
- INSTALL RRH UNITS INSIDE STEALTH POLE
- INSTALL METER INSIDE STEALTH LIGHT POLE
- INSTALL LOAD CENTER INSIDE INSIDE STEALTH POLE
- POLE COLOR: MOSS GREEN RAL#6005

PROJECT INFORMATION

SITE ADDRESS:	1805 WHITEHOUSE DR JACKSON, WYOMING 83001	COUNTY:	TETON
		JURISDICTION:	JACKSON
		ZONING DISTRICT:	RESIDENTIAL
		ADJACENT PARCEL #:	22-40-16-06-2-50-009
LATITUDE:	43.4651323° N	POLE #:	N/A
LONGITUDE:	-110.8114072° W	RFDS DATE:	N/A
GROUND ELEVATION:	6130'±	RFDS REVISION #:	N/A
4G ANT. TIP HEIGHT:	29'-9"		

DRAWING INDEX

		REV
14931943-IDL07031F_R01_A-T-1	TITLE SHEET	3
14931943-IDL07031F_R01_A-A-1	OVERALL SITE PLAN	
14931943-IDL07031F_R01_A-A-2	ENLARGED SITE PLAN	
14931943-IDL07031F_R01_A-A-3	EXISTING & NEW POLE ELEVATIONS	
14931943-IDL07031F_R01_A-G-1	GROUNDING DETAILS	
14931943-IDL07031F_R01_A-RF-1	RF & EQUIPMENT DETAILS	
14931943-IDL07031F_R01_A-E-1,2	ELECTRICAL DETAILS	
14931943-IDL07031F_R01_A-F-1	FOUNDATION DETAILS	
14931943-IDL07031F_R01_A-S-1	PHOTO SIMULATIONS DIAGRAM	
14931943-IDL07031F_R01_A-GN-1	GENERAL NOTES	

SITE PHOTO

SITE PROJECT PARTICIPANTS

	NAME	COMPANY	NUMBER
A&E	OLIVER RADACK	TRYLON TSF	855-669-5421
SAC	PAUL TOPHAM	SMARTLINK, LLC	801-913-1011
RF	TROY JOHNSON	AT&T	720-244-1913
POWER COMPANY	RICK KNORI	LVE	307-733-2446
TEL. COMPANY	VERONICA BONILLA PM	AT&T	619-204-7826
	JIM MCGEE CM	AT&T	720-891-3935

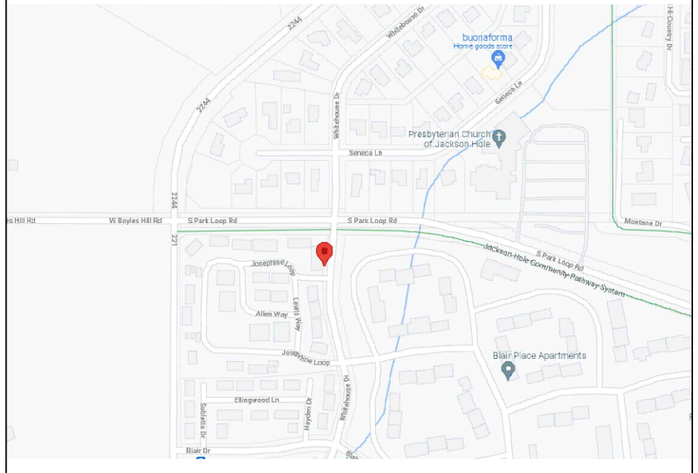
at&t Mobility

SITE ID: IDL07031F_R01_A - LTE1C - Micro Cell - 2017H2d (CRAN_JCKSN_001)
NODE USID: 280144 NODE FA: 14931943
1C PACE ID: MRUTH030446
CLUSTER NAME: CRAN_RUTH_JCKSN
CONSTRUCTION DRAWINGS

SITE ADDRESS

SITE IS LOCATED APPROXIMATELY 140 FEET SOUTH OF THE S/W CORNER AT THE INTERSECTION OF WHITEHOUSE DRIVE AND PARK LOOP ROAD. SITE IS ON THE WEST SIDE OF WHITEHOUSE DRIVE IN A PARK STRIP. LIGHT POLE# N/A.

VICINITY MAP



DIG INFO

CONTACT 811 AT LEAST TWO BUSINESS DAYS BEFORE DIGGING AND PROVIDE ACCURATE DIG SITE LOCATION INFORMATION.

Blue Stakes of UTAH 811 Bluestakes.org

APPLICABLE BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
[INTERNATIONAL BUILDING CODE (IBC), 2018 AS ADOPTED BY THE LOCAL JURISDICTION]

ELECTRICAL CODE:
[NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2007, NATIONAL ELECTRICAL CODE, 2017 AS ADOPTED BY THE LOCAL JURISDICTION]

LIGHTNING PROTECTION CODE:
[NFPA 780 - 2002, LIGHTNING PROTECTION CODE]

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, THIRTEENTH EDITION ANSI/TIA 222-G, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SCALING DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

at&t Mobility
4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

ADDRESS
1805 WHITEHOUSE DR
JACKSON, WYOMING 83001
SITE ID
IDL07031F_R01_A
NODE USID
280144
CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07031F_R01_A

REV	DATE	DESCRIPTION
0	10/02/2019	PRELIMINARY CONSTRUCTION DRAWING
1	11/06/2019	PRELIMINARY REV 1
2	12/11/2019	95 % CONSTRUCTION DRAWING
3	11/05/2021	CLIENT COMMENTS
4	11/28/21	CLIENT COMMENTS

SHEET TITLE
TITLE SHEET

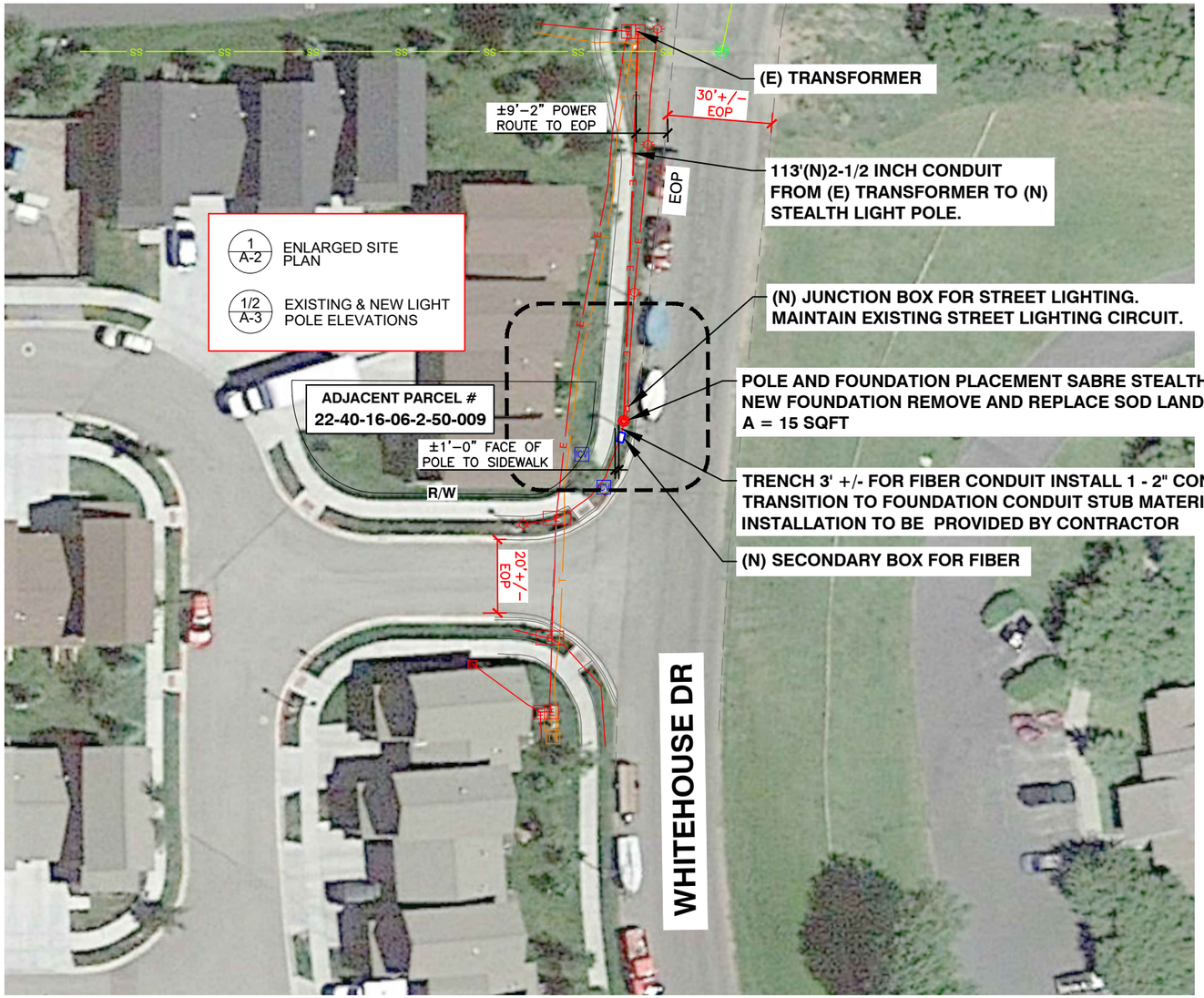
SHEET NUMBER
T-1

PROJECT NOTES

1. ALL EXISTING DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY NEW POLE LOCATION, RIGHT OF WAY AND EXISTING UTILITY LOCATION PRIOR TO COMMENCEMENT OF WORK.
2. VERIFY ELECTRICAL AND FIBER DESIGN WITH UTILITY PROVIDER DESIGN AND STANDARDS.
3. CONTRACTOR TO REPLACE AND REPAIR ANY LANDSCAPING OR ASSOCIATED WATERING SYSTEMS DAMAGED DURING CONSTRUCTION.
4. ALL SHOWN UTILITIES IDENTIFIED PER BLUESTAKE AS RECORDED ON SURVEY. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.

NOTE

A. THIS IS A STEALTH FACILITY, DESIGNED TO LOOK LIKE SOMETHING OTHER THAN A SMALL WIRELESS FACILITY, SUCH THAT THE NATURE AND PURPOSE OF THE POLE IS NOT OBVIOUS TO A REASONABLE OBSERVER. IN THIS CASE THE FACILITY MIMICS A STREETLIGHT DESIGN. THE QUALITIES AND CHARACTERISTICS THAT MUST BE RETAINED THAT MAKE THIS FACILITY STEALTH ARE AS FOLLOWS:
   I. THE APPLICATION IS FOR A STEALTH POLE WITH ANTENNAS ENCLOSED IN A SHROUD WHOSE SIZE IS CONSISTENT WITH AND IN PROPORTION TO THE OVERALL DESIGN OF THE POLE; AND
   II. ALL WIRING IS INTERNAL TO THE STEALTH POLE, WHICH IS AN INTEGRAL ELEMENT TO ENSURING THE POLE APPEARS TO BE A STREETLIGHT OR SIMILAR POLE, EVEN IF IT LACKS A LIGHT AT THIS TIME. THE FOLLOWING APPLIES TO THE EQUIPMENT LOCATION:
   III. THERE SHALL BE NO EXTERNAL EQUIPMENT, AND NO APPURTENANCE ATTACHED TO THE POLE HORIZONTALLY, VERTICALLY, OR OTHERWISE; AND
   IV. CONSISTENT WITH STREETLIGHT DESIGN, THIS FACILITY'S STEALTH FEATURES, AND THAT THE SIZE OF THE FACILITY IS DESIGNED TO MAKE IT LESS OBVIOUS, THERE IS AND SHALL BE NO EQUIPMENT OR APPURTENANCES ATTACHED IN ANY WAY TO THE POLE; AND
   V. THERE ARE AND SHALL BE NO VISIBLE ABOVE GROUND CABINETS; AND
   VI. THE BASE OF THE POLE INCLUDING ITS SIZE AND DESIGN, FITS WITH THE DESIGN OF OTHER POLES NEARBY.
B. FACILITY SHALL MAINTAIN THE STEALTH DESIGN FOR THE ENTIRETY OF THE TIME THAT THE FACILITY IS IN PLACE, TO INCLUDE REPAINTING AND REPAIR SO THAT IT IS CONSISTENT WITH OTHER STREETLIGHT POLES.
C. FACILITY SHALL BE MAINTAINED IN GOOD WORKING ORDER AND PROMPTLY REPAIRED.
D. PRIOR TO CONSTRUCTION OF THIS FACILITY THE COMMUNICATIONS/FIBER PROVIDER MUST BE IDENTIFIED AND OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN FOR THEIR ANCILLARY WORK.
E. PRIOR TO CONSTRUCTION OF THIS FACILITY THE POWER PROVIDER MUST BE IDENTIFIED AND OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN FOR THEIR ANCILLARY WORK.
F. PRIOR TO CONSTRUCTION OF THIS FACILITY THE CONTRACTOR MUST OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN.



LEGEND

PROPERTY(EXISTING)
- RIGHT–OF–WAY LINE(APPARENT)
- RANGE LINE(APPARENT)
- PROPERTY LINE(APPARENT)
- HISTORIC LOT LINE(APPARENT)
- ZONE DISTRICT LINE(APPARENT)

EXISTING UTILITIES
- OHT — OVERHEAD TELEPHONE
- T — TELEPHONE
- CTV — CABLE TV
- OHE — OVERHEAD ELECTRIC
- E — ELECTRIC
- OHU — OVERHEAD UTILITY
- FO — FIBER OPTIC
- GAS — NATURAL GAS
- W — WATER
- SS — SANITARY SEWER
- SD — STORM SEWER

PROPOSED UTILITIES
- OHE — OVERHEAD ELECTRIC
- E — ELECTRIC
- FO — FIBER OPTIC

EXISTING LANDSCAPE
- BLOCK WALL
- CHAINLINK FENCE
- GUARDRAIL
- FENCE
- VEGETATION LINE

SYMBOL KEY
- CONTROL POINT
- FOUND MONUMENT
- FOUND ALUMINUM CAP
- BOLLARD
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC RISER
- ELECTRIC TRANSFORMER
- FIBER OPTIC PEDESTAL
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- MONITORING WELL
- SANITARY SEWER MANHOLE
- SIGN
- STORM DRAIN MANHOLE
- STREET LIGHT
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- UTILITY POLE
- WATER MANHOLE
- WATER VALVE
- SPRINKLER HEAD
- IRRIGATION CONTROL VALVE
- WATER METER

Blue Stakes of UTAH 811 Bluestakes.org

NORTH

FULL SCALE (22x34 SHEET ONLY) 1" = 10'
20' 10' 0 10' 20'
HALF SCALE (11x17 SHEET ONLY) 1" = 20'

at&t Mobility
4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

ADDRESS
1805 WHITEHOUSE DR
JACKSON, WYOMING 83001

SITE ID
IDL07031F_R01_A

NODE USID
280144

CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07031F_R01_A

REV	DATE	DESCRIPTION
0	10/02/2019	PRELIMINARY CONSTRUCTION DRAWING
1	11/06/2019	PRELIMINARY REV 1
2	12/11/2019	95 % CONSTRUCTION DRAWING
3	11/05/2021	CLIENT COMMENTS
4	11/28/21	CLIENT COMMENTS

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1

NOTE:

1 - GRADING AND GRASS TO BE RETURNED TO ORIGINAL CONDITION.

2 - CONTRACTOR TO REFERENCE RFDS FOR RF SPECIFIC DETAILS.

LEGEND

PROPERTY(EXISTING)
- RIGHT-OF-WAY LINE(APPARENT)
- RANGE LINE(APPARENT)
- PROPERTY LINE(APPARENT)
- HISTORIC LOT LINE(APPARENT)
- ZONE DISTRICT LINE(APPARENT)

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- WATER MANHOLE
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- SPRINKLER HEAD
- IRRIGATION CONTROL VALVE
- WATER METER

Blue Stakes of UTAH 811 Bluestakes.org

NORTH

FULL SCALE (22x34 SHEET ONLY) 1/4" = 1'-0"
8' 4' 0 4' 8'
HALF SCALE (11x17 SHEET ONLY) 1/8" = 1'-0"

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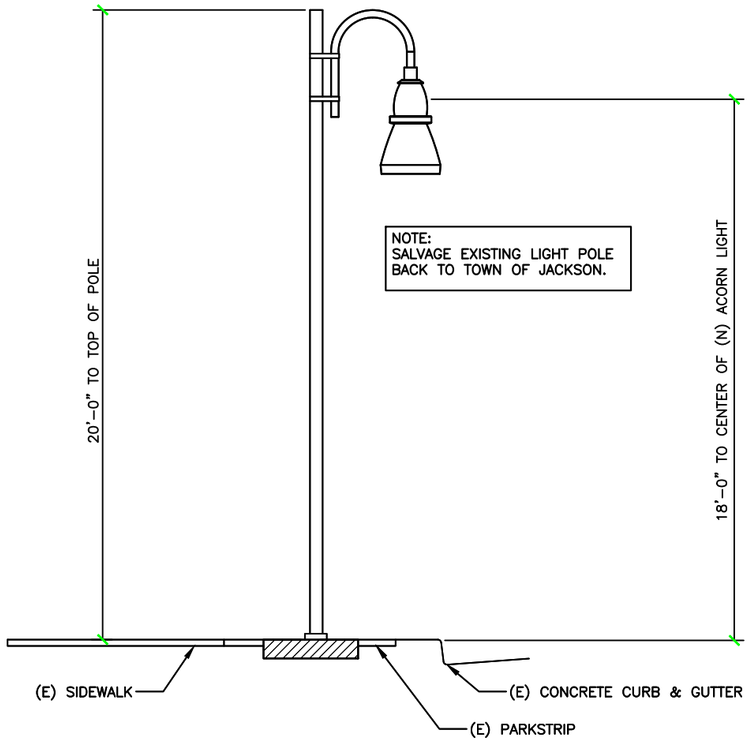
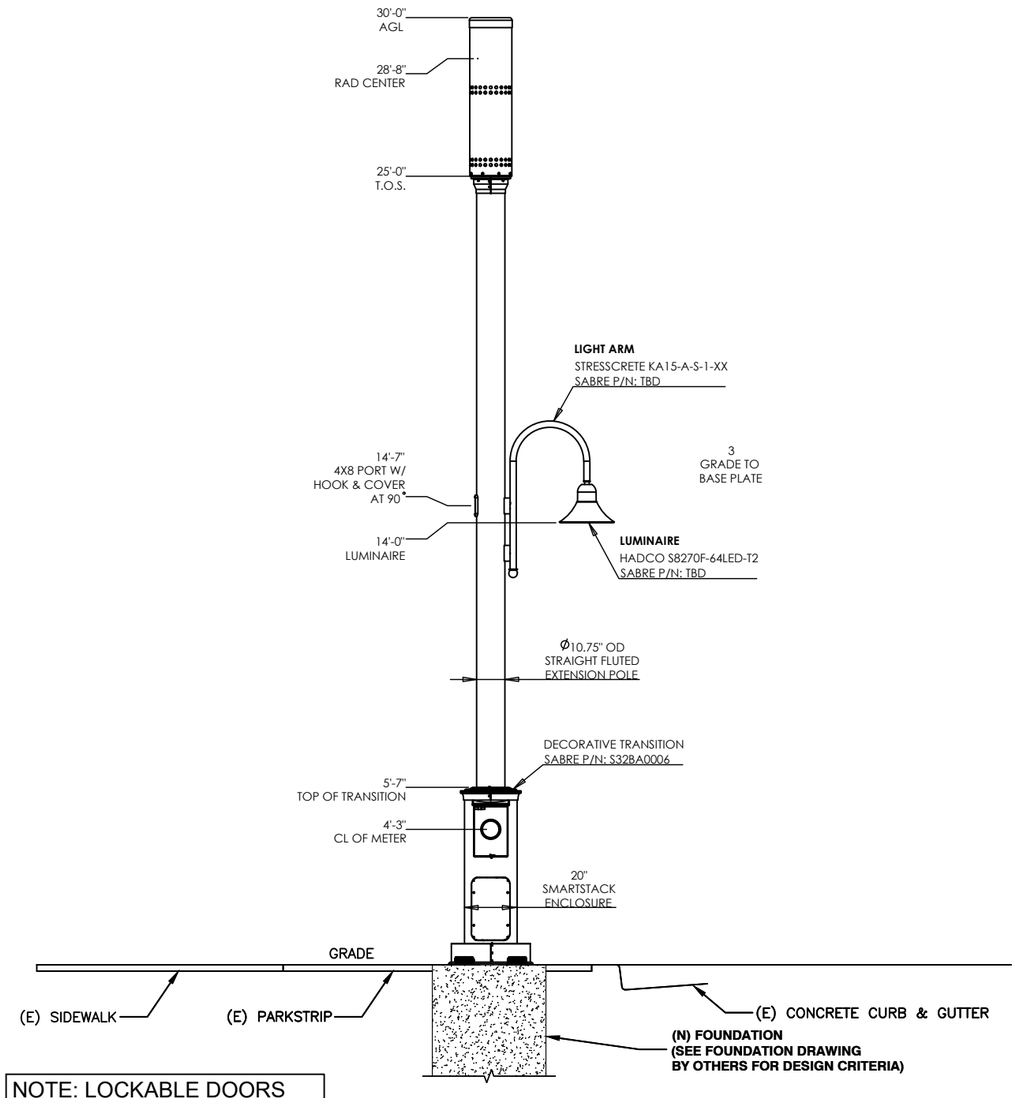
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-2



EXISTING POLE ELEVATION | 1



NOTE: LOCKABLE DOORS TO BE PROVIDED AS NEEDED IN THE EQUIPMENT CABINET TO MAINTAIN EQUIPMENT

NEW POLE ELEVATION | 2

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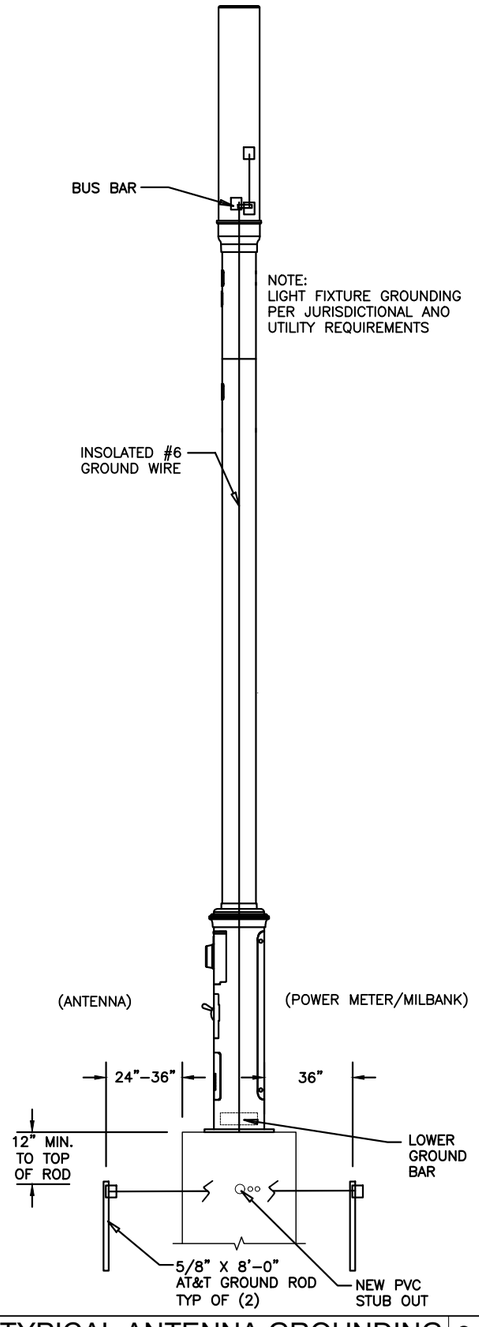
SHEET TITLE
EXISTING & NEW LIGHT POLE ELEVATIONS

SHEET NUMBER
A-3

NOTES:

- IF A SINGLE GROUND ROD DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS, IT SHALL BE SUPPLEMENTED BY AN ADDITIONAL GROUND ROD. SEPARATION BETWEEN GROUND RODS MUST BE AT A MINIMUM DISTANCE OF 6'



TYPICAL ANTENNA GROUNDING | 3

NOTES:

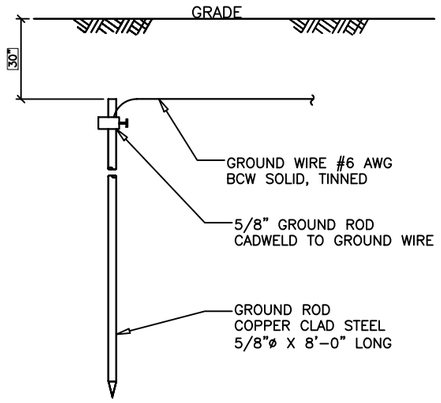
1. MAINTAIN 36" CLEARANCE FROM ANY EXISTING GROUND RODS.

2. CONTRACTOR TO FEED #2 AWG WIRE THROUGH HAND HOLE FROM GROUNDING ROD MEASURING NO MORE THAN 8" IN LENGTH. TAG PLACED AT END OF WIRE FOR GROUND TESTING.

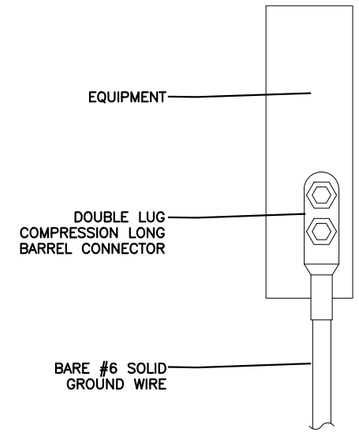
3. GROUND ROD TO BE LOCATED WITHIN 36" RANGE FROM POLE ADJACENT TO HAND HOLE. NO FURTHER THAN 4" AWAY FROM HAND HOLE.

4. CONTRACTOR TO REPLACE EACH CONCRETE SIDEWALK SECTION WHERE WORK HAS BEEN DONE.

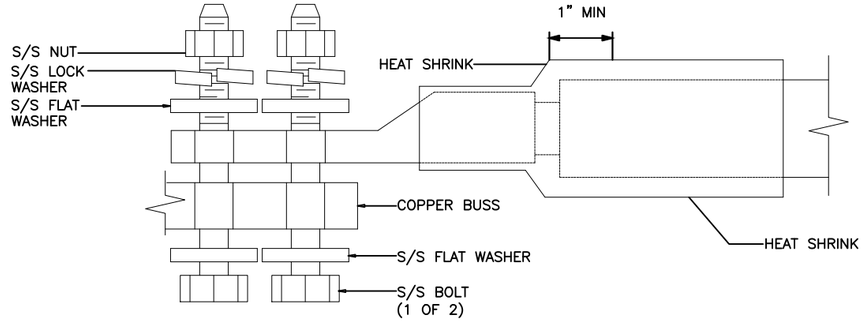
NOTES | 6



GROUND ROD | 5



GROUND TO EQUIPMENT



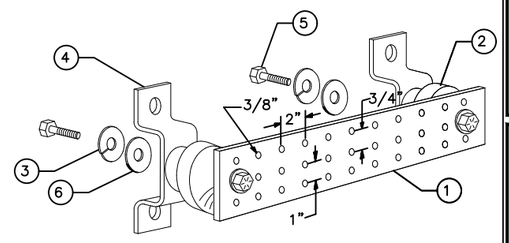
NOTE:

1. ALL HARDWARE 18–8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH ANTI–OXIDANT COMPOUND BEFORE MATING.

2. ALL HARDWARE SHALL BE S/S 3/8" ø OR LARGER

3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI–OXIDANT COMPOUND BEFORE MATING.

TWO LUG GROUND | 2



LEGEND:

1– TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B–6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.

2– INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061–4

3– 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015–8

4– WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A–5056

5– 5/8–11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012–1

6– 5/8" FLAT WASHERS, NEWTON INSTRUMENT CO. CAT NO. TBD

GROUND BAR | 1

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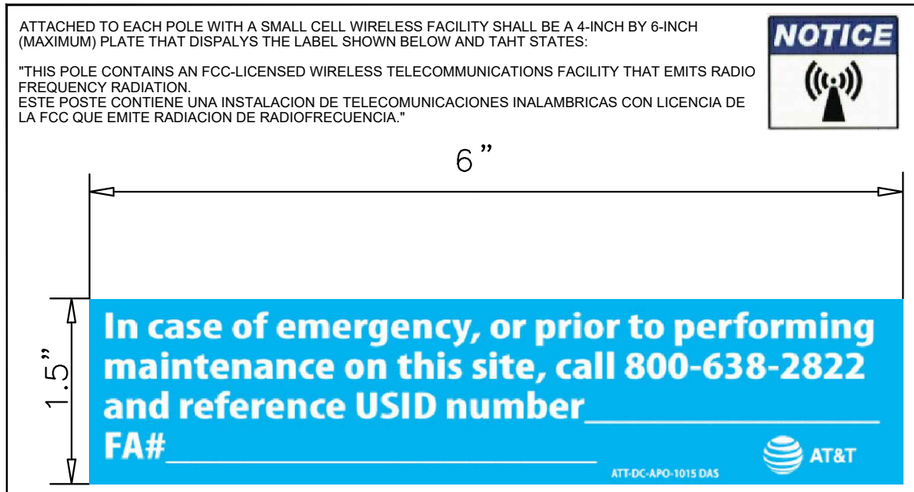
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

ATTACHED TO EACH POLE WITH A SMALL CELL WIRELESS FACILITY SHALL BE A 4-INCH BY 6-INCH (MAXIMUM) PLATE THAT DISPALYS THE LABEL SHOWN BELOW AND TAHT STATES:

"THIS POLE CONTAINS AN FCC-LICENSED WIRELESS TELECOMMUNICATIONS FACILITY THAT EMITS RADIO FREQUENCY RADIATION.
ESTE POSTE CONTIENE UNA INSTALACION DE TELECOMUNICACIONES INALAMBRICAS CON LICENCIA DE LA FCC QUE EMITE RADIACION DE RADIOFRECUENCIA."



NOTE:
WARNING SIGNS TO BE MOUNTED, IN VIEW, ON EQUIPMENT ENCLOSURE

NOTE:
INSTALL PER MANUFACTURER SPECIFICATIONS AND FCC.

NOTE:
INSTALL SITE ID PLATE ON POLE BASE ABOVE EQUIPMENT ACCESS DOOR.

Available from Excel Sign and Decal:
https://www.weneedsigns.com/home.php?cat=1135 and click on AT&T
Ph: 510-651-0445

NO1-DC-16 1"X6" NOTICE DECAL

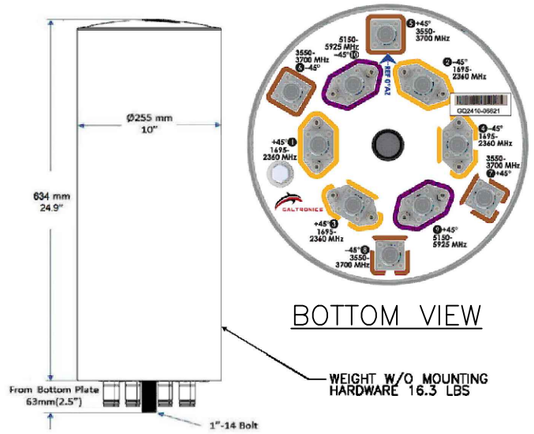
"For 1 Foot Distance" VINYL DECAL WITH ADHESIVE BACKING

1 order comes in a pack of 25

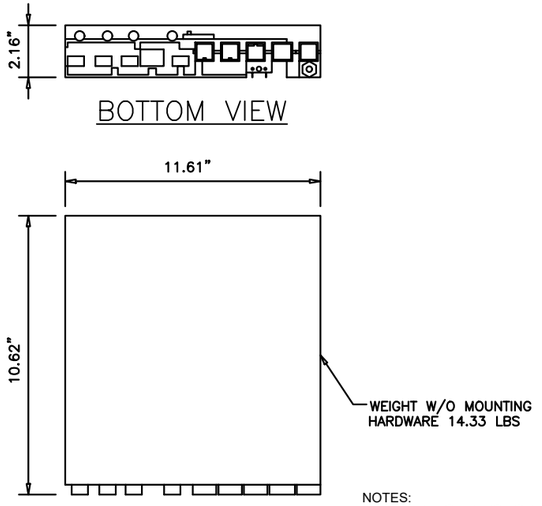
Apply two NOTICE stickers opposite each other around the bottom of the radome.

GENERIC RF WARNING SIGNS AND LABELS - REFER TO RS100 | 2

NOTE:
1 – PLACE THREE AT&T 1”X6” NOTICE STICKERS EQUALLY SPACED AT OR NEAR THE BOTTOM RADOME.
2 – REFERENCE RFDS FOR RF SPECIFIC DETAILS



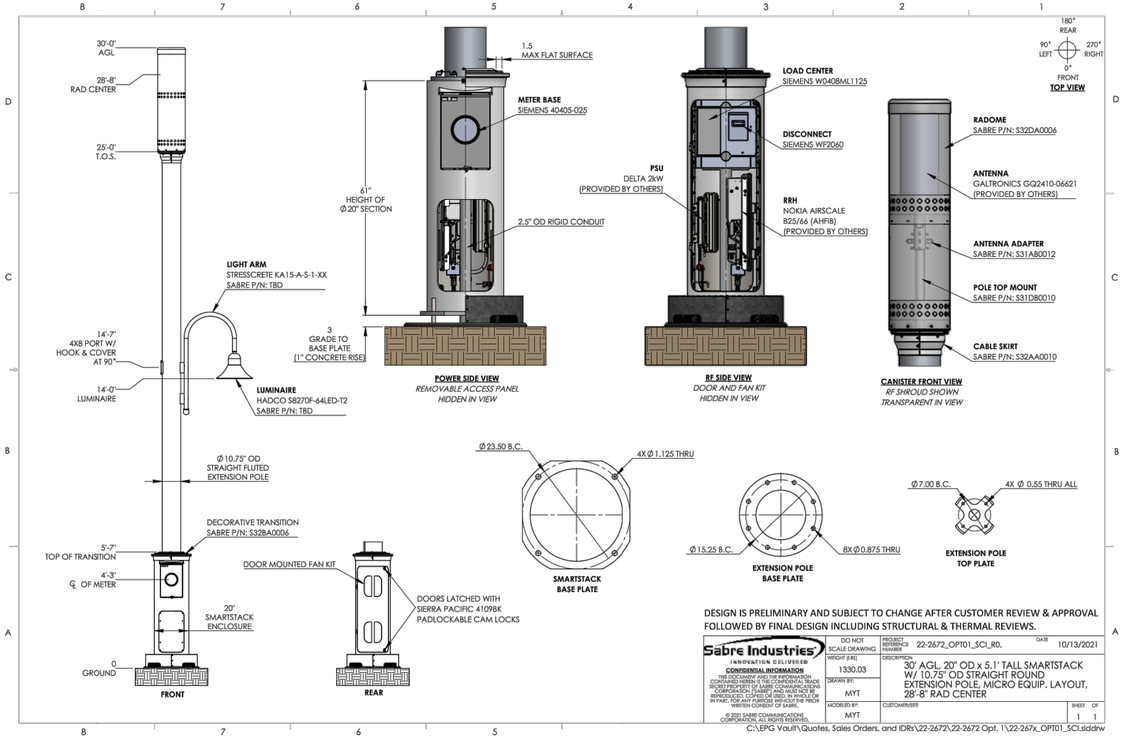
ANTENNA PROFILE



NOTES:
1 - REFERENCE RFDS FOR RF SPECIFIC DETAILS

ANTENNA | 5 | RRH | 4

FOR INFORMATION ONLY - RF CENTRIC COMPONENTS SHOULD BE OBTAINED FROM THE RFDS (I.E. RRH & ANTENNA)



DESIGN IS PRELIMINARY AND SUBJECT TO CHANGE AFTER CUSTOMER REVIEW & APPROVAL FOLLOWED BY FINAL DESIGN INCLUDING STRUCTURAL & THERMAL REVIEWS.

Sabre Industries
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DO NOT SCALE DRAWING	
PROJECT REFERENCE NUMBER	22-2672_OPT01_SCI_R0,
DATE	10/13/2021
WEIGHT (LBS)	1330.03
DESCRIPTION	30' AGL, 20" OD x 5.1' TALL SMARTSTACK W/ 10.75" OD STRAIGHT ROUND EXTENSION POLE, MICRO EQUIP. LAYOUT, 28'-8" RAD CENTER
DRAWN BY:	MYT
MODELED BY:	MYT
CUSTOMER/SITE	
SHEET	1 OF 1

C:\EPG Vault\Quotes, Sales Orders, and IDRs\22-2672\22-2672 Opt. 1\22-267x_OPT01_SCI.sldrw

SMART STACK PICO POLE DESIGN DETAILS | 1

at&t Mobility
4393 RIVERBOAT ROAD SUITE 400
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SHEET TITLE
RF & EQUIPMENT DETAILS

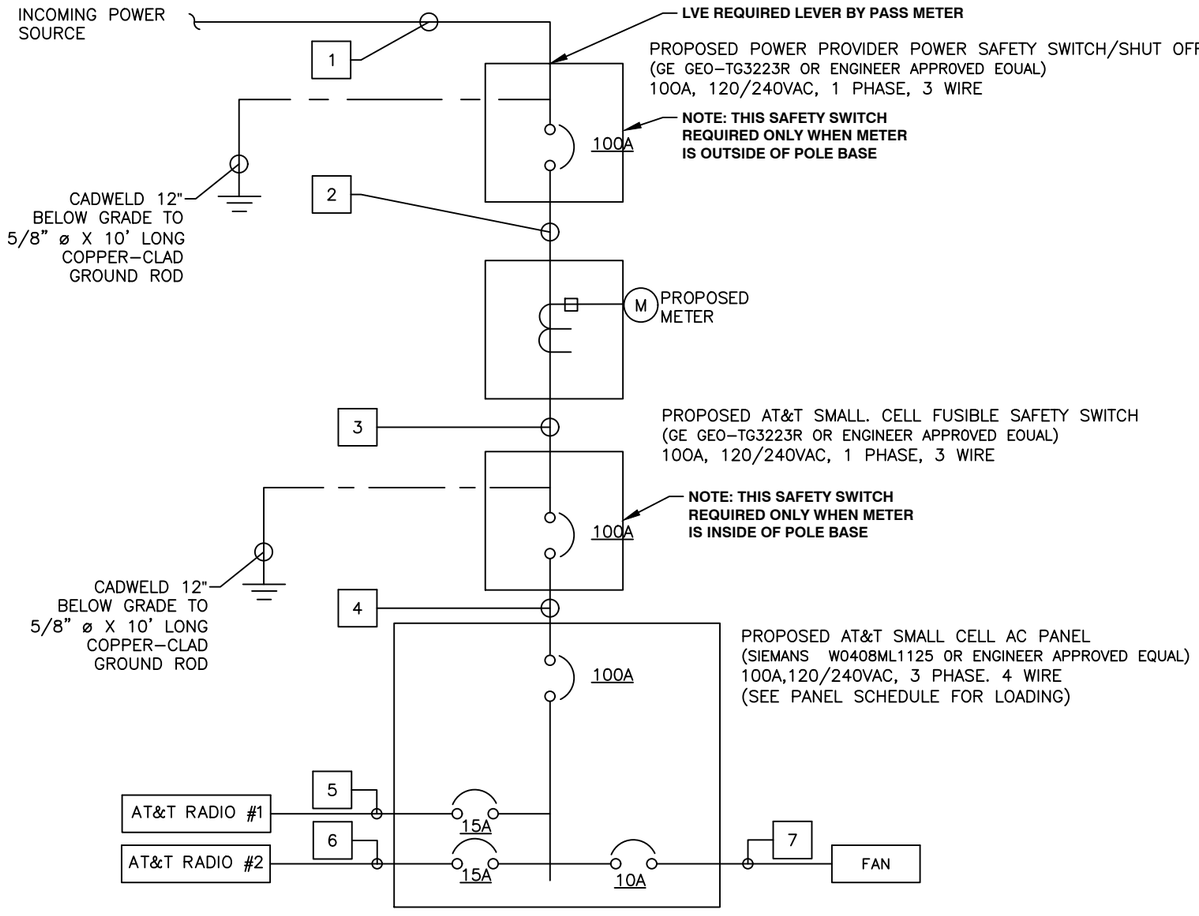
SHEET NUMBER
RF-1

NO	FROM	TO	CONFIGURATION
1	INCOMING ELECTRICAL SERVICE P.O.C	PROPOSED FUSIBLE SAFETY SWITCH	CONDUCTORS AND CONDUIT
2	PROPOSED FUSIBLE SAFETY SWITCH	PROPOSED METER	(3) #1 CU THWN – 2
3	PROPOSED METER	PROPOSED FUSIBLE SAFETY SWITCH	(3) #1 CU THWN – 2 (1) #6 CU EGC
4	PROPOSED FUSIBLE SAFETY SWITCH	PROPOSED AC LOAD CENTER	(2) #14 CU THWN – 2 (1) #14 CU EGC
5	PROPOSED AC LOAD CENTER	AT&T RADIO #1	(2) #14 CU THWN – 2 (1) #14 CU EGC
6	PROPOSED AC LOAD CENTER	AT&T RADIO #2	(2) #14 CU THWN – 2 (1) #14 CU EGC
7	PROPOSED AC LOAD CENTER	FAN	(2) #14 CU THWN – 2 (1) #14 CU EGC

120VAC FEEDER CONDUCTOR MAXIMUM DISTANCE		
#14 AWG	70'–0"	3% VOLT DROP @ 6.7A
#12 AWG	135'–0"	3% VOLT DROP @ 6.7A
#10 AWG	225'–0"	3% VOLT DROP @ 6.7A
#8 AWG	345'–0"	3% VOLT DROP @ 6.7A

NOTES:

1. ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN–2, THW–2, RHW–2. XHHW–2 WIRE UNLESS NOTED OTHERWISE.
2. ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "AT&:T SMALL CELL" WITH BRASS OR FIBERGLASS TAGS.
3. ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NAT10NAL ELECTRIC CODE (NEC).



Site Name:	AT&T SMALL CELL - MICRO					MODEL NUMBER:		SIEMENS W0408ML1125								
SITE NUMBER:						PHASE:		3				WIRE:		4		
VOLTAGE:	120	/208	Volts AC			BUS S RATING:		125	AMPS							
MAIN BREAKER:	100	AMPS														
MOUNT:	SURFACE															
ENCLOSURE TYPE:	NEMA 3R															
PANEL STATUS:	PROPOSED															

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	AT&T RADIO #1	15	1	NEW	150	1.00	1.00	150									2
3	AT&T RADIO #2	15	1	NEW	150	1.00	1.00	150	56	1.00	1.00	56	NEW	1	10	FAN	4
5																	6
7																	8
								PHASE A	PHASE B								
								300	56	VA							
	1. PANEL SCHEDUEL LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.								TOTAL	KVA	0.356						
										AMPS	2.967	≤ 80% OF MAIN BREAKER					

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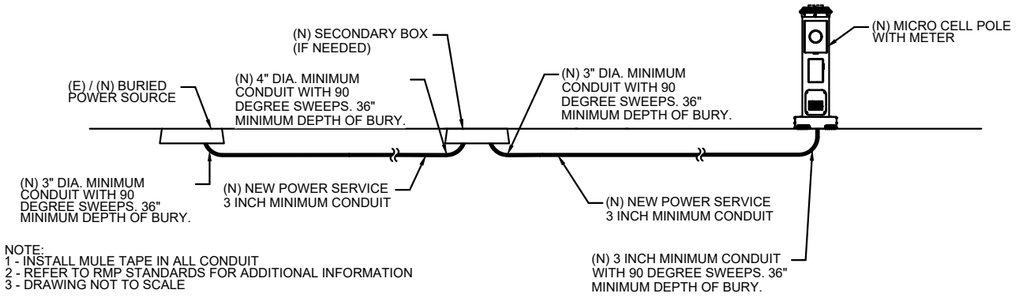
SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

SHEET NUMBER
E-1

PAD MOUNT POWER SOURCE OPTION WITH POLE BASE METER



NOTE:
1 - INSTALL MULE TAPE IN ALL CONDUIT
2 - REFER TO RMP STANDARDS FOR ADDITIONAL INFORMATION
3 - DRAWING NOT TO SCALE

LVE FIELD CONTACT
RICK KNORI 307-733-2446

LVE POWER DESIGN | 1

at&t Mobility
4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

ADDRESS
1805 WHITEHOUSE DR
JACKSON, WYOMING 83001

SITE ID
IDL07031F_R01_A

NODE USID
280144

CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07031F_R01_A

REV	DATE	DESCRIPTION
0	10/02/2019	PRELIMINARY CONSTRUCTION DRAWING
1	11/06/2019	PRELIMINARY REV 1
2	12/11/2019	95 % CONSTRUCTION DRAWING
3	11/05/2021	CLIENT COMMENTS
4	11/28/21	CLIENT COMMENTS

SHEET TITLE
ELECTRICAL DETAIL

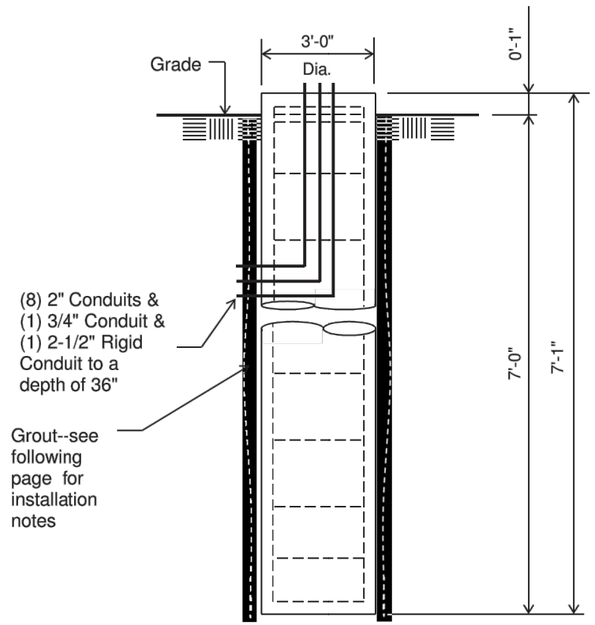
SHEET NUMBER
E-2

NOTE:
ONLY (3) OF THE 2" CONDUITS AND THE (1) 2-1/2" RIGID CONDUIT WILL BE USED FOR THE CURRENT INSTALLATION. (5) 2" CONDUITS RESERVED FOR FUTURE SERVICE.

Sabre Industries™
INNOVATION DELIVERED

No.: 20-5050-EPG Opt. 6
Date: 05/01/20
By: KJT

Customer: SMARTLINK, LLC
Site: CRAN_JCKSN_6 (Node 280095) Wyoming Market 20" Base Smart Stack (30' AGL)
25.33' Smart Stack



ELEVATION VIEW
(1.85 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

1) Concrete shall have a minimum 28-day compressive strength of 5,000 psi, in accordance with ACI 318-14.

2) Rebar to conform to ASTM specification A615 Grade 60.

3) All rebar to have a minimum of 3" concrete cover.

4) All exposed concrete corners to be chamfered 3/4".

5) The foundation design is based on presumptive clay soil as defined in ANSI/TIA-222-H-2017.

6) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier	
Pier	(12) #6 vertical rebar w/ #3 ties, (3) within top 5" of pier, then 12" C/C

7101 Southbridge Drive - P.O. Box 658 - Sioux City, IA 51102-0658 - Phone 712.258.6690 - Fax 712.279.0814

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SHEET TITLE
SABRE FOUNDATION DETAILS

SHEET NUMBER
F-1

VIEW 1 EXISTING

VIEW 2 EXISTING

*Final lighting fixture design may vary and is subject to the pole manufacturers' production capabilities

PHOTOGRAPHIC SIMULATIONS

VIEW 1 PROPOSED

VIEW 2 PROPOSED

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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – SMARTLINK, LLC
SUBCONTRACTOR– GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – AT&T MOBILITY
OEM – ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES 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 CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR 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.
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
7. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
9. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF 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.
10. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
12. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
13. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
14. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES.
15. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
16. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
17. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PLANELOAD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP USE LOW PROFILES TIE WRAPS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. 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 RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. 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 BTS EQUIPMENT.
4. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
5. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
6. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
7. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
8. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
9. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
10. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
11. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.
12. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
13. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
14. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
15. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
16. GROUND RING SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICH EVER IS DEEPER.
17. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
18. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY. 8. GROUND BARS: A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
19. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
20. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
21. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).

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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

PROJECT DESCRIPTION

- AT&T TO REPLACE EXISTING LIGHT POLE WITH NEW 30'-0" METAL SABRE SMARTSTACK STEALTH LIGHT POLE
- INSTALL CANISTER ANTENNA ON NEW MOUNT
- INSTALL RRH UNITS INSIDE STEALTH POLE
- INSTALL ELECTRICAL METER INSIDE STEALTH POLE
- INSTALL LOAD CENTER INSIDE INSIDE STEALTH POLE
- POLE COLOR: MOSS GREEN RAL#6005

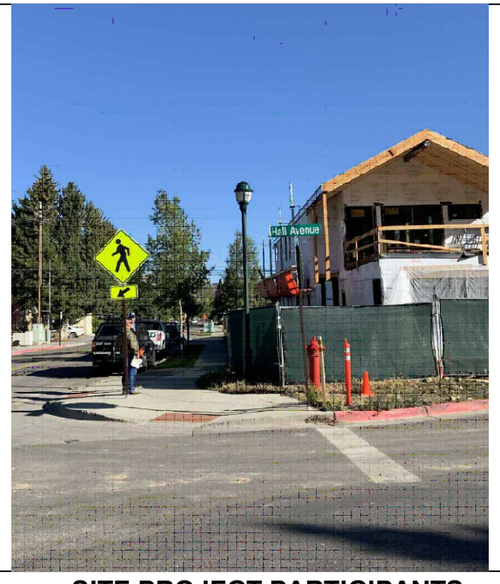
PROJECT INFORMATION

SITE ADDRESS:	617 E HALL AVENUE JACKSON, WYOMING 83001	COUNTY:	TETON
		JURISDICTION:	JACKSON
		ZONING DISTRICT:	PO
		ADJACENT PARCEL #:	22-41-16-34-1-26-009
LATITUDE:	43.4753675° N	POLE #:	N/A
LONGITUDE:	-110.7499307° W	RFDS DATE:	N/A
GROUND ELEVATION:	6305'±	RFDS REVISION #:	N/A
ANTENNA TIP HEIGHT:	29'-9"		

DRAWING INDEX

14891525-IDL07034F_R03_A-T-1	TITLE SHEET
14891525-IDL07034F_R03_A-A-1	OVERALL SITE PLAN
14891525-IDL07034F_R03_A-A-2	ENLARGED SITE PLAN
14891525-IDL07034F_R03_A-A-3	EXISTING & NEW POLE ELEVATIONS
14891525-IDL07034F_R03_A-G-1	GROUNDING DETAILS
14891525-IDL07034F_R03_A-RF-1	RF & EQUIPMENT DETAILS
14891525-IDL07034F_R03_A-E-1,2	ELECTRICAL DETAILS
14891525-IDL07034F_R03_A-F-1	FOUNDATION DETAILS
14891525-IDL07034F_R03_A-S-1	PHOTO SIMULATIONS DIAGRAM
14891525-IDL07034F_R03_A-GN-1	GENERAL NOTES

SITE PHOTO



SITE PROJECT PARTICIPANTS

	NAME	COMPANY	NUMBER
A&E	OLIVER RADACK	TRYLON TSF	855-669-5421
SAC	PAUL TOPHAM	SMARTLINK, LLC	801-913-1011
RF	TROY JOHNSON	AT&T	720-244-1913
POWER COMPANY	RICK KNORI	LVE	307-733-2446
TEL. COMPANY	VERONICA BONILLA PM	AT&T	619-204-7826
	JIM MCGEE CM	AT&T	720-891-3935

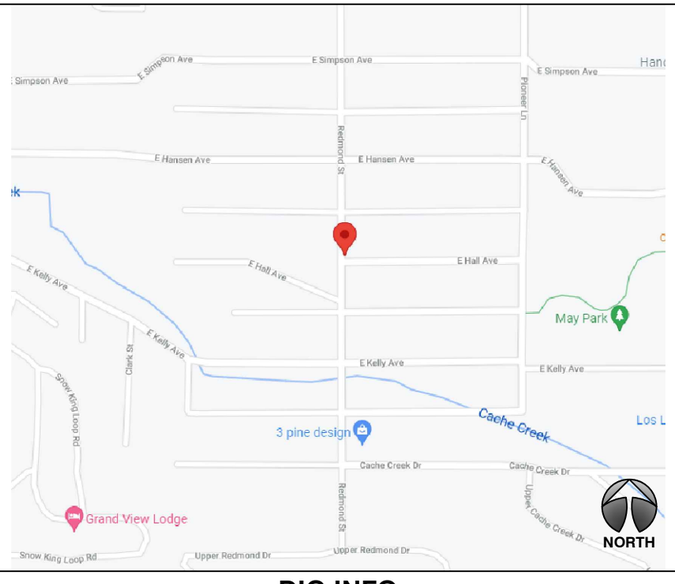
at&t Mobility

SITE ID: IDL07034F_R03_A - LTE1C - Micro Cell - 2017H2d CRAN_JCKSN_009)
NODE USID: 280097 NODE FA: 14891525
1C PACE ID: MRUTH032911
CLUSTER NAME: CRAN_RUTH_JCKSN
CONSTRUCTION DRAWINGS

SITE ADDRESS

SITE IS LOCATED APPROXIMATELY 10 FEET NORTH OF THE S/W CORNER AT THE INTERSECTION OF HALL AVE AND REDMOND ST. SITE IS ON THE NORTH SIDE OF HALL AVE IN A PARK STRIP.

VICINITY MAP



DIG INFO

CONTACT 811 AT LEAST TWO BUSINESS DAYS BEFORE DIGGING AND PROVIDE ACCURATE DIG SITE LOCATION INFORMATION.

Blue Stakes of UTAH 811 Bluestakes.org

APPLICABLE BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
[INTERNATIONAL BUILDING CODE (IBC), 2018 AS ADOPTED BY THE LOCAL JURISDICTION]

ELECTRICAL CODE:
[NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2007, NATIONAL ELECTRICAL CODE, 2017 AS ADOPTED BY THE LOCAL JURISDICTION]

LIGHTNING PROTECTION CODE:
[NFPA 780 - 2002, LIGHTNING PROTECTION CODE]

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, THIRTEENTH EDITION ANSI/TIA 222-G, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SCALING DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

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4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

ADDRESS
617 E HALL AVENUE
JACKSON, WYOMING 83001
SITE ID
IDL07034F_R03_A
NODE USID
280097
CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07034F_R03_A

REV	DATE	DESCRIPTION
0	10/16/2019	PRELIMINARY CONSTRUCTION DRAWING
1	11/20/2019	PRELIMINARY REV 1
2	12/19/2019	95% CONSTRUCTION DRAWING
3	11/11/2021	CLIENT COMMENTS

SHEET TITLE
TITLE SHEET

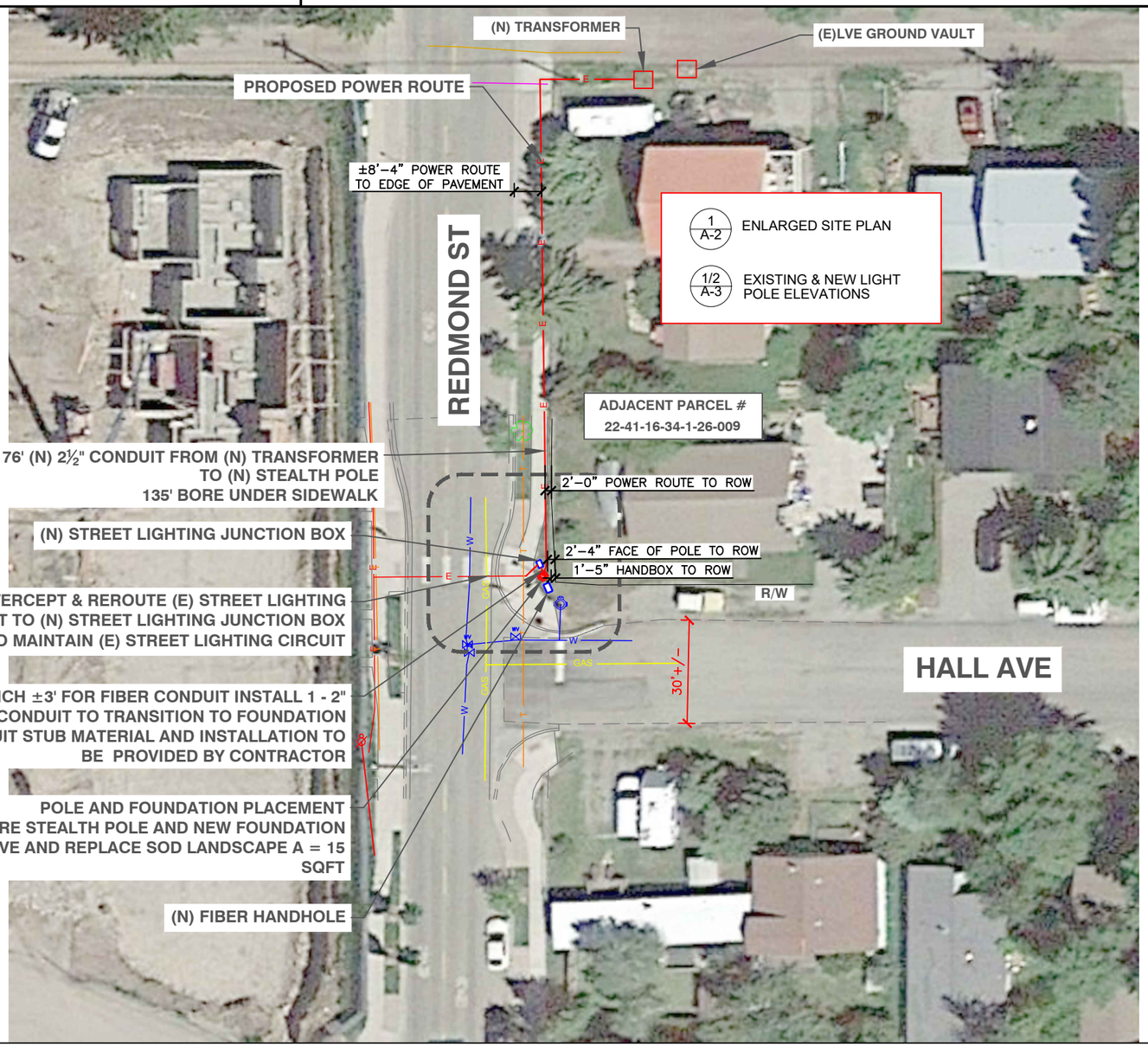
SHEET NUMBER
T-1

PROJECT NOTES

1. ALL EXISTING DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY NEW POLE LOCATION, RIGHT OF WAY AND EXISTING UTILITY LOCATION PRIOR TO COMMENCEMENT OF WORK.
2. VERIFY ELECTRICAL AND FIBER DESIGN WITH UTILITY PROVIDER DESIGN AND STANDARDS.
3. CONTRACTOR TO REPLACE AND REPAIR ANY LANDSCAPING OR ASSOCIATED WATERING SYSTEMS DAMAGED DURING CONSTRUCTION.
4. ALL SHOWN UTILITIES IDENTIFIED PER BLUESTAKE AS RECORDED ON SURVEY. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.

NOTE

A. THIS IS A STEALTH FACILITY, DESIGNED TO LOOK LIKE SOMETHING OTHER THAN A SMALL WIRELESS FACILITY, SUCH THAT THE NATURE AND PURPOSE OF THE POLE IS NOT OBVIOUS TO A REASONABLE OBSERVER. IN THIS CASE THE FACILITY MIMICS A STREETLIGHT DESIGN. THE QUALITIES AND CHARACTERISTICS THAT MUST BE RETAINED THAT MAKE THIS FACILITY STEALTH ARE AS FOLLOWS:
   I. THE APPLICATION IS FOR A STEALTH POLE WITH ANTENNAS ENCLOSED IN A SHROUD WHOSE SIZE IS CONSISTENT WITH AND IN PROPORTION TO THE OVERALL DESIGN OF THE POLE; AND
   II. ALL WIRING IS INTERNAL TO THE STEALTH POLE, WHICH IS AN INTEGRAL ELEMENT TO ENSURING THE POLE APPEARS TO BE A STREETLIGHT OR SIMILAR POLE, EVEN IF IT LACKS A LIGHT AT THIS TIME. THE FOLLOWING APPLIES TO THE EQUIPMENT LOCATION:
   III. THERE SHALL BE NO EXTERNAL EQUIPMENT, AND NO APPURTENANCE ATTACHED TO THE POLE HORIZONTALLY, VERTICALLY, OR OTHERWISE; AND
   IV. CONSISTENT WITH STREETLIGHT DESIGN, THIS FACILITY'S STEALTH FEATURES, AND THAT THE SIZE OF THE FACILITY IS DESIGNED TO MAKE IT LESS OBVIOUS, THERE IS AND SHALL BE NO EQUIPMENT OR APPURTENANCES ATTACHED IN ANY WAY TO THE POLE; AND
   V. THERE ARE AND SHALL BE NO VISIBLE ABOVE GROUND CABINETS; AND
   VI. THE BASE OF THE POLE INCLUDING ITS SIZE AND DESIGN, FITS WITH THE DESIGN OF OTHER POLES NEARBY.
B. FACILITY SHALL MAINTAIN THE STEALTH DESIGN FOR THE ENTIRETY OF THE TIME THAT THE FACILITY IS IN PLACE, TO INCLUDE REPAINTING AND REPAIR SO THAT IT IS CONSISTENT WITH OTHER STREETLIGHT POLES.
C. FACILITY SHALL BE MAINTAINED IN GOOD WORKING ORDER AND PROMPTLY REPAIRED.
D. PRIOR TO CONSTRUCTION OF THIS FACILITY THE COMMUNICATIONS/FIBER PROVIDER MUST BE IDENTIFIED AND OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN FOR THEIR ANCILLARY WORK.
E. PRIOR TO CONSTRUCTION OF THIS FACILITY THE POWER PROVIDER MUST BE IDENTIFIED AND OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN FOR THEIR ANCILLARY WORK.
F. PRIOR TO CONSTRUCTION OF THIS FACILITY THE CONTRACTOR MUST OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN.



LEGEND

PROPERTY(EXISTING)
- RIGHT-OF-WAY LINE(APPARENT)
- RANGE LINE(APPARENT)
- PROPERTY LINE(APPARENT)
- HISTORIC LOT LINE(APPARENT)
- ZONE DISTRICT LINE(APPARENT)

EXISTING UTILITIES
- OHT — OVERHEAD TELEPHONE
- T — TELEPHONE
- CTV — CABLE TV
- OHE — OVERHEAD ELECTRIC
- E — ELECTRIC
- OHU — OVERHEAD UTILITY
- FO — FIBER OPTIC
- GAS — NATURAL GAS
- W — WATER
- SS — SANITARY SEWER
- SD — STORM SEWER

PROPOSED UTILITIES
- OHE — OVERHEAD ELECTRIC
- E — ELECTRIC
- FO — FIBER OPTIC

EXISTING LANDSCAPE
- BLOCK WALL
- CHAINLINK FENCE
- GUARDRAIL
- FENCE
- VEGETATION LINE

SYMBOL KEY
- CONTROL POINT
- FOUND MONUMENT
- FOUND ALUMINUM CAP
- BOLLARD
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC RISER
- ELECTRIC TRANSFORMER
- FIBER OPTIC PEDESTAL
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- MONITORING WELL
- SANITARY SEWER MANHOLE
- SIGN
- STORM DRAIN MANHOLE
- STREET LIGHT
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- UTILITY POLE
- WATER MANHOLE
- WATER VALVE
- SPRINKLER HEAD
- IRRIGATION CONTROL VALVE
- WATER METER

Blue Stakes of UTAH 811 Bluestakes.org

NORTH

FULL SCALE (22x34 SHEET ONLY) 1" = 10'
20' 10' 0 10' 20'
HALF SCALE (11x17 SHEET ONLY) 1" = 20'

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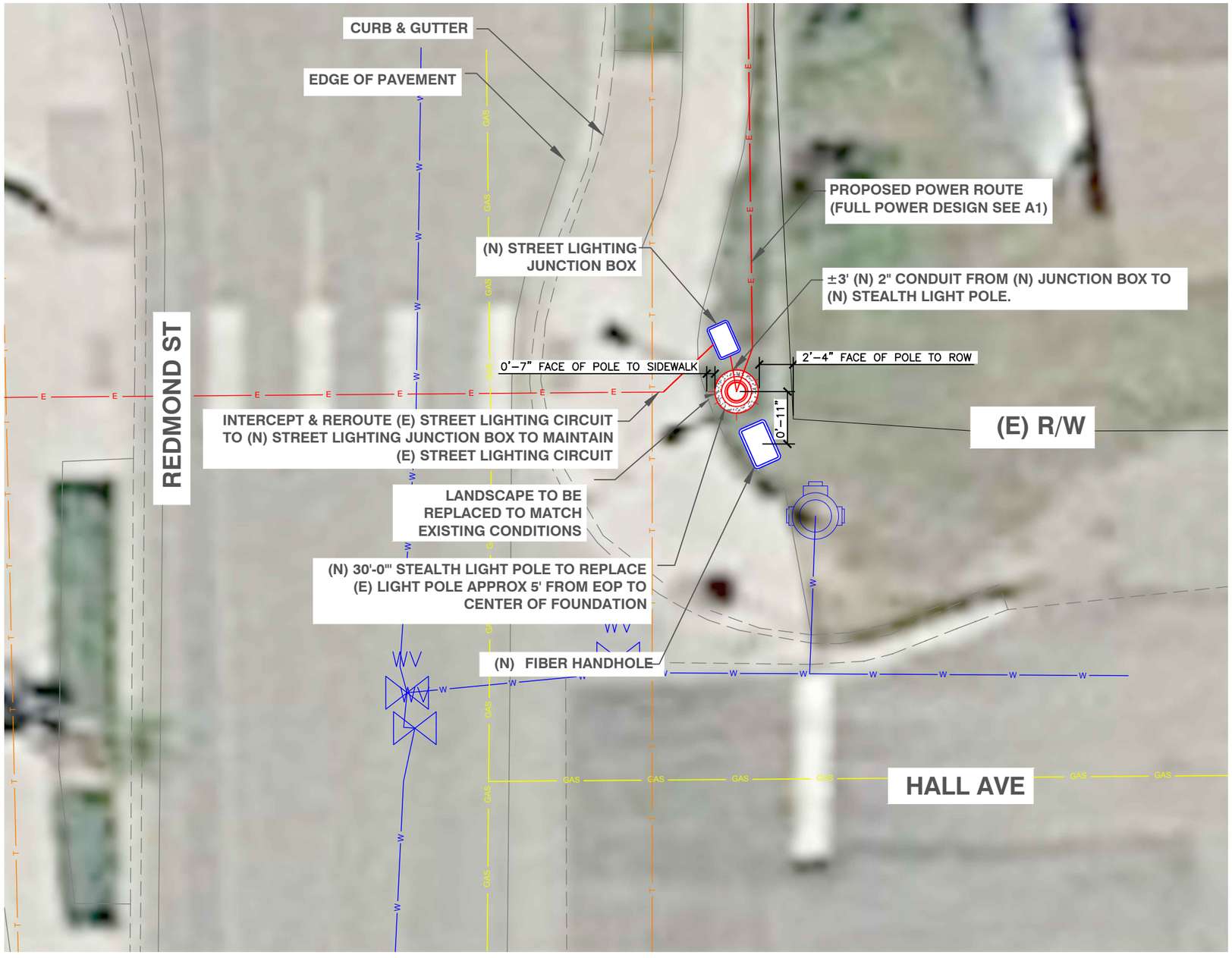
SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1

NOTE:

1 - GRADING AND GRASS TO BE RETURNED TO ORIGINAL CONDITION.

2 - CONTRACTOR TO REFERENCE RFDS FOR RF SPECIFIC DETAILS.



NORTH

FULL SCALE (22x34 SHEET ONLY) 1/4" = 1'-0"

8' 4' 0 4' 8'

HALF SCALE (11x17 SHEET ONLY) 1/8" = 1'-0"

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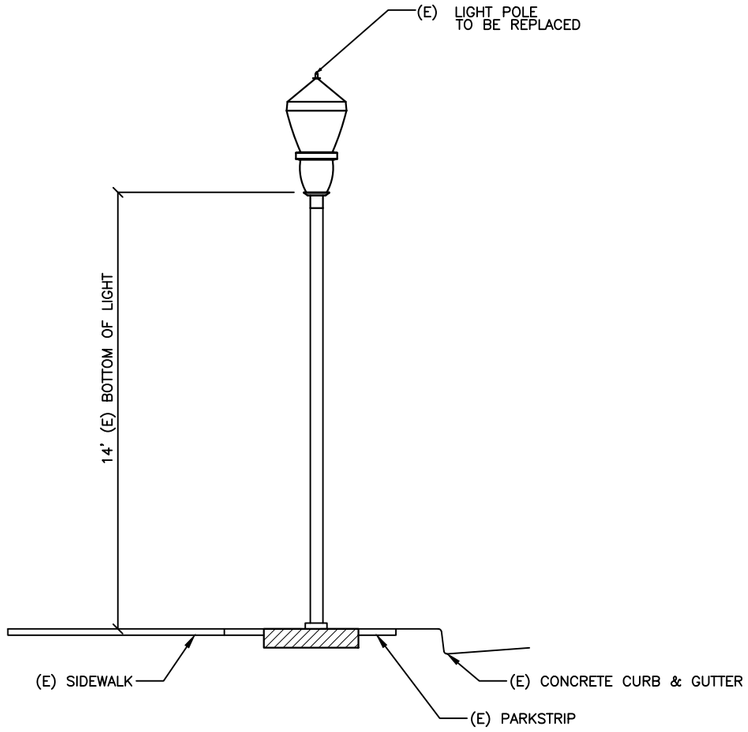
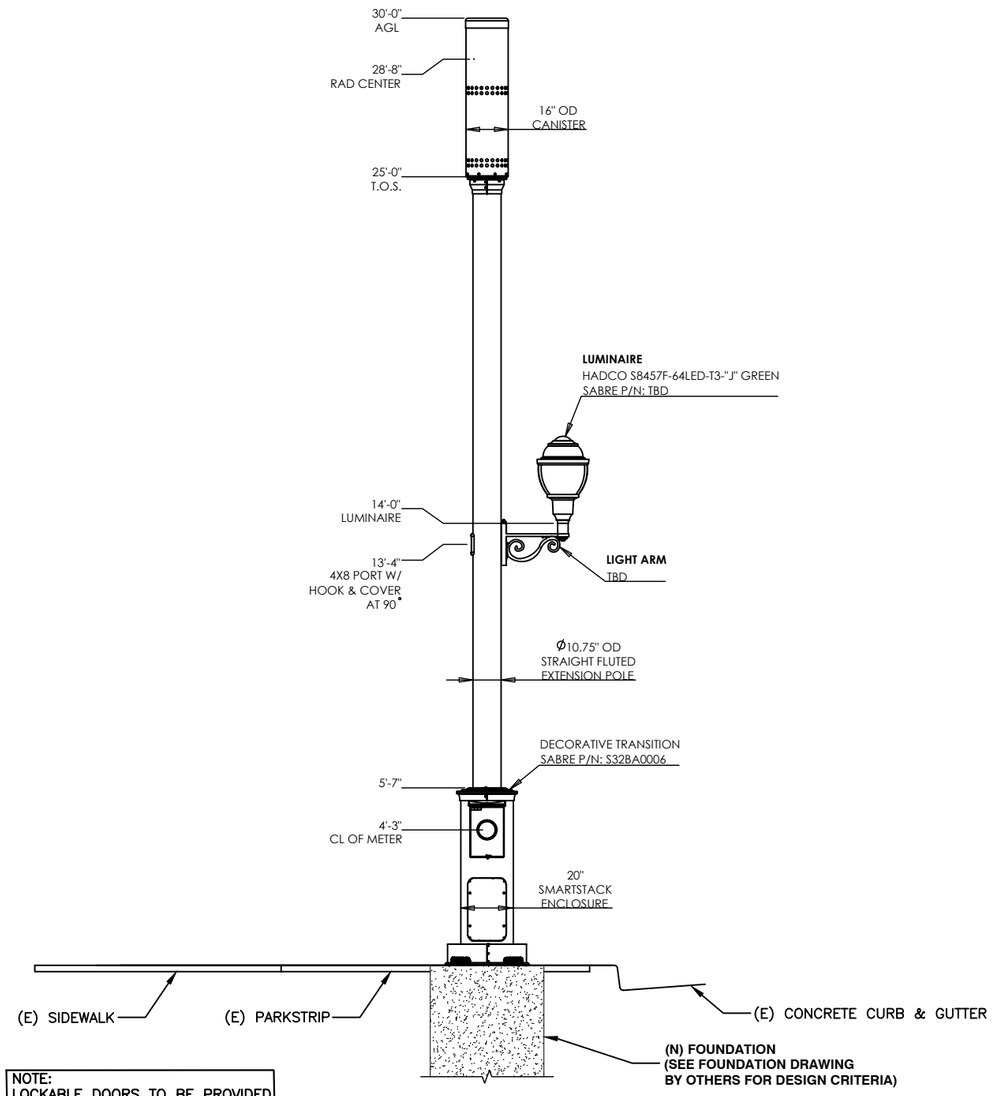
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-2

NOTE:
SALVAGE EXISTING LIGHT POLE
BACK TO THE TOWN OF JACKSON.



EXISTING POLE ELEVATION | 1



NOTE:
LOCKABLE DOORS TO BE PROVIDED
AS NEEDED IN THE EQUIPMENT
CABINET TO MAINTAIN EQUIPMENT.

NEW POLE ELEVATION | 2

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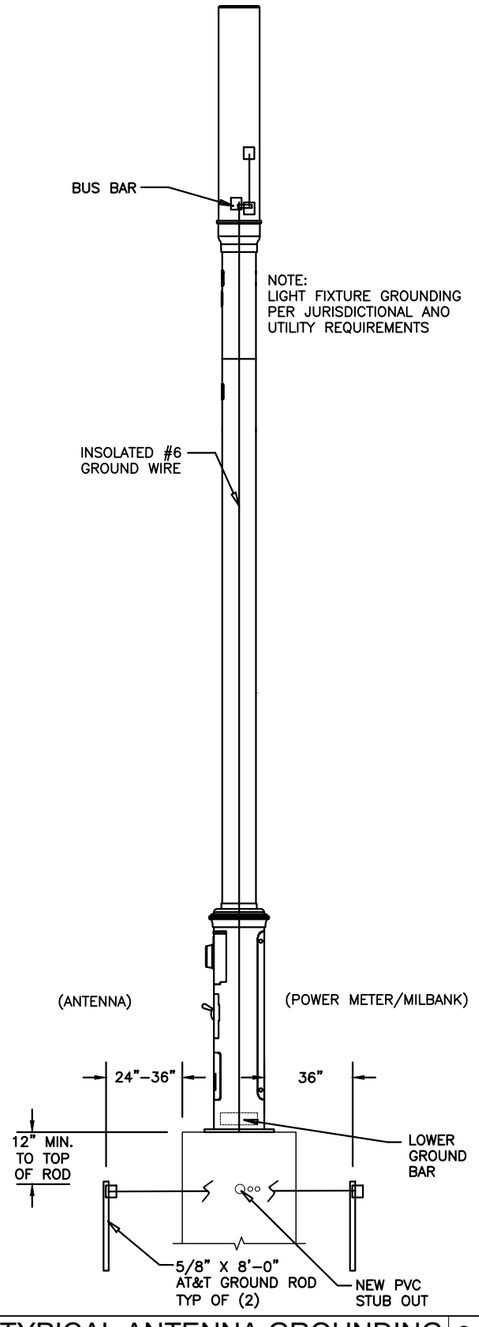
SHEET TITLE
EXISTING & NEW LIGHT POLE ELEVATIONS

SHEET NUMBER
A-3

NOTES:

- IF A SINGLE GROUND ROD DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS, IT SHALL BE SUPPLEMENTED BY AN ADDITIONAL GROUND ROD. SEPARATION BETWEEN GROUND RODS MUST BE AT A MINIMUM DISTANCE OF 6'



TYPICAL ANTENNA GROUNDING | 3

NOTES:

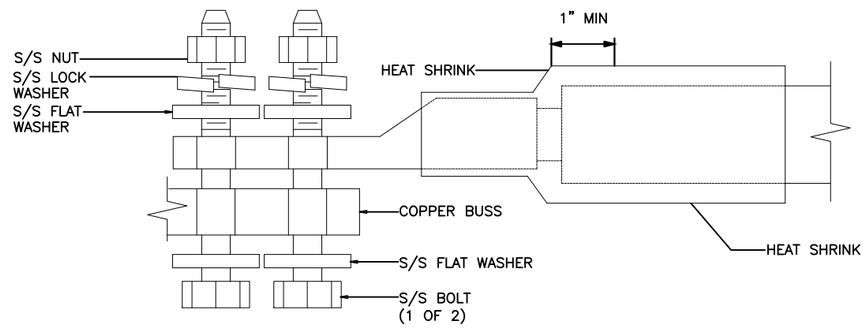
1. MAINTAIN 36" CLEARANCE FROM ANY EXISTING GROUND RODS.

2. CONTRACTOR TO FEED #2 AWG WIRE THROUGH HAND HOLE FROM GROUNDING ROD MEASURING NO MORE THAN 8" IN LENGTH. TAG PLACED AT END OF WIRE FOR GROUND TESTING.

3. GROUND ROD TO BE LOCATED WITHIN 36" RANGE FROM POLE ADJACENT TO HAND HOLE. NO FURTHER THAN 4" AWAY FROM HAND HOLE.

4. CONTRACTOR TO REPLACE EACH CONCRETE SIDEWALK SECTION WHERE WORK HAS BEEN DONE.

NOTES | 6



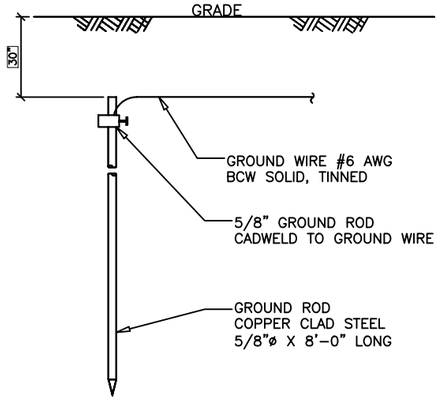
NOTE:

1. ALL HARDWARE 18–8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH ANTI–OXIDANT COMPOUND BEFORE MATING.

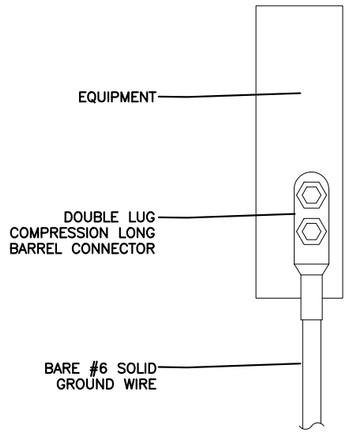
2. ALL HARDWARE SHALL BE S/S 3/8" ø OR LARGER

3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI–OXIDANT COMPOUND BEFORE MATING.

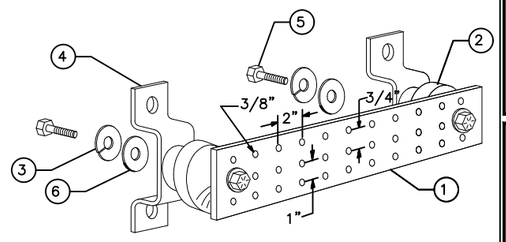
TWO LUG GROUND | 2



GROUND ROD | 5



GROUND TO EQUIPMENT



LEGEND:

1– TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B–6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.

2– INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061–4

3– 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015–8

4– WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A–5056

5– 5/8–11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012–1

6– 5/8" FLAT WASHERS, NEWTON INSTRUMENT CO. CAT NO. TBD

GROUND BAR | 1

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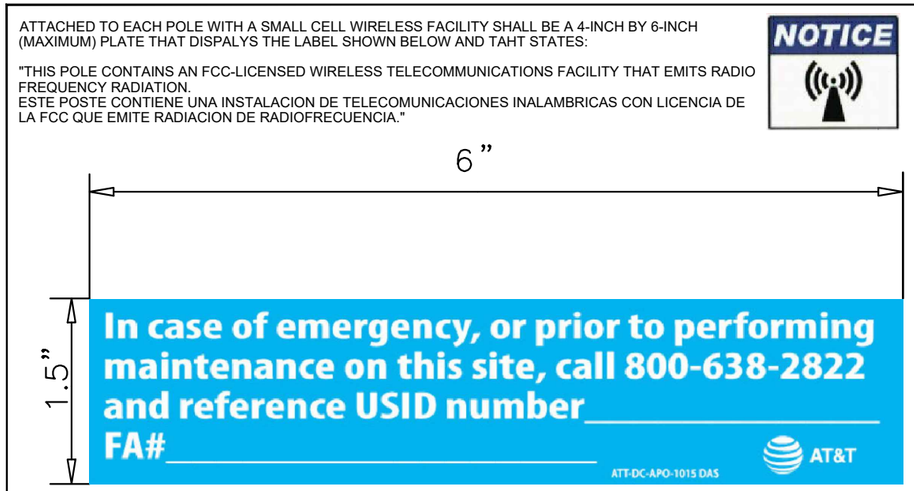
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

ATTACHED TO EACH POLE WITH A SMALL CELL WIRELESS FACILITY SHALL BE A 4-INCH BY 6-INCH (MAXIMUM) PLATE THAT DISPALYS THE LABEL SHOWN BELOW AND TAHT STATES:

"THIS POLE CONTAINS AN FCC-LICENSED WIRELESS TELECOMMUNICATIONS FACILITY THAT EMITS RADIO FREQUENCY RADIATION.
ESTE POSTE CONTIENE UNA INSTALACION DE TELECOMUNICACIONES INALAMBRICAS CON LICENCIA DE LA FCC QUE EMITE RADIACION DE RADIOFRECUENCIA."



NOTE:
WARNING SIGNS TO BE MOUNTED, IN VIEW, ON EQUIPMENT ENCLOSURE

NOTE:
INSTALL PER MANUFACTURER SPECIFICATIONS AND FCC.

NOTE:
INSTALL SITE ID PLATE ON POLE BASE ABOVE EQUIPMENT ACCESS DOOR.

Available from Excel Sign and Decal:
https://www.weneedsigns.com/home.php?cat=1135 and click on AT&T
Ph: 510-651-0445

NO1-DC-16 1"X6" NOTICE DECAL

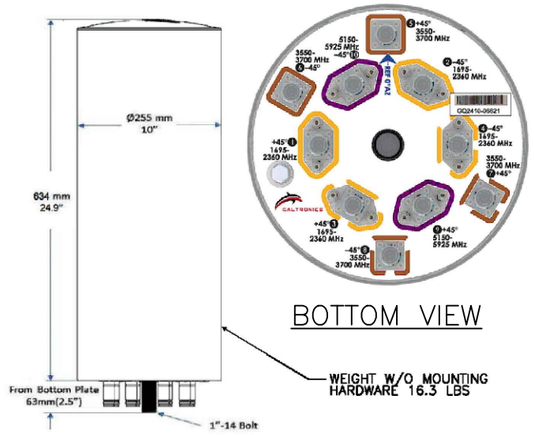
"For 1 Foot Distance" VINYL DECAL WITH ADHESIVE BACKING

1 order comes in a pack of 25

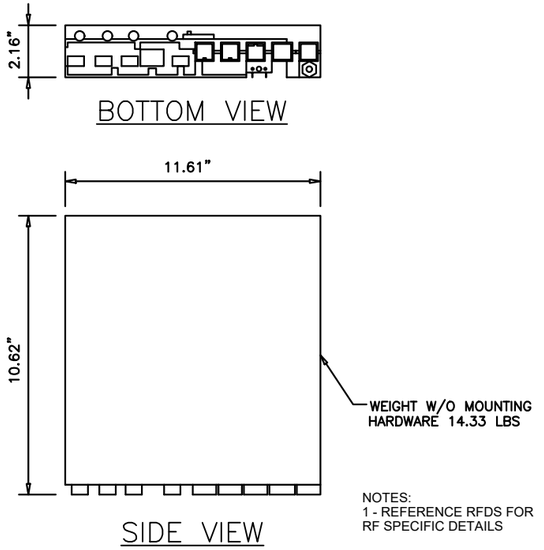
Apply two NOTICE stickers opposite each other around the bottom of the radome.

GENERIC RF WARNING SIGNS AND LABELS - REFER TO RS100 | 2

NOTE:
1 – PLACE THREE AT&T 1”X6” NOTICE STICKERS EQUALLY SPACED AT OR NEAR THE BOTTOM RADOME.
2 – REFERENCE RFDS FOR RF SPECIFIC DETAILS



ANTENNA PROFILE

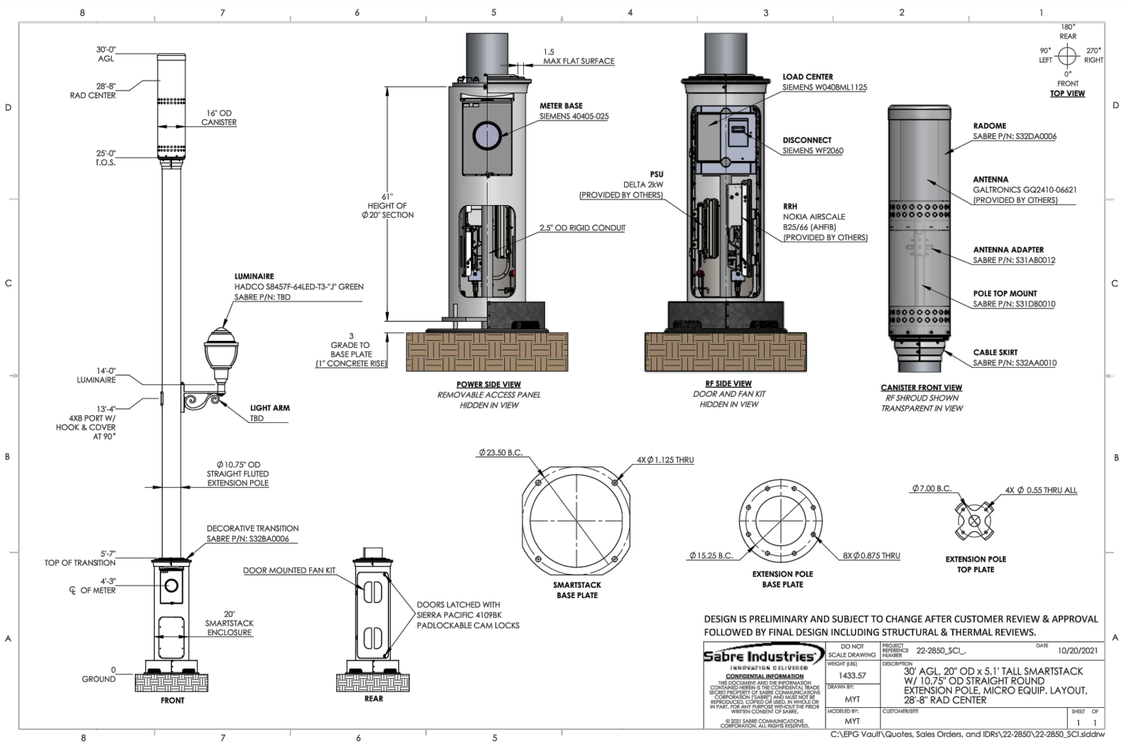


NOTES:
1 - REFERENCE RFDS FOR RF SPECIFIC DETAILS

SIDE VIEW

ANTENNA	5	RRH	4

FOR INFORMATION ONLY - RF CENTRIC COMPONENTS SHOULD BE OBTAINED FROM THE RFDS (I.E. RRH & ANTENNA)



DESIGN IS PRELIMINARY AND SUBJECT TO CHANGE AFTER CUSTOMER REVIEW & APPROVAL FOLLOWED BY FINAL DESIGN INCLUDING STRUCTURAL & THERMAL REVIEWS.

Sabre Industries
INNOVATION DELIVERED
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DO NOT SCALE DRAWING	PROJECT REFERENCE NUMBER 22-2850_SCI_.	DATE 10/20/2021
WEIGHT (LBS) 1433.57	DESCRIPTION 30' AGL, 20" OD x 5.1' TALL SMARTSTACK W/ 10.75" OD STRAIGHT ROUND EXTENSION POLE, MICRO EQUIP. LAYOUT, 28'-8" RAD CENTER	
DRAWN BY: MYT		
MODELED BY: MYT	CUSTOMER/SITE	SHEET 1 OF 1

C:\EPG Vault\Quotes, Sales Orders, and IDRs\22-2850\22-2850_SCI.sldrw

SMART STACK PICO POLE DESIGN DETAILS | 1

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SHEET TITLE
RF & EQUIPMENT DETAILS

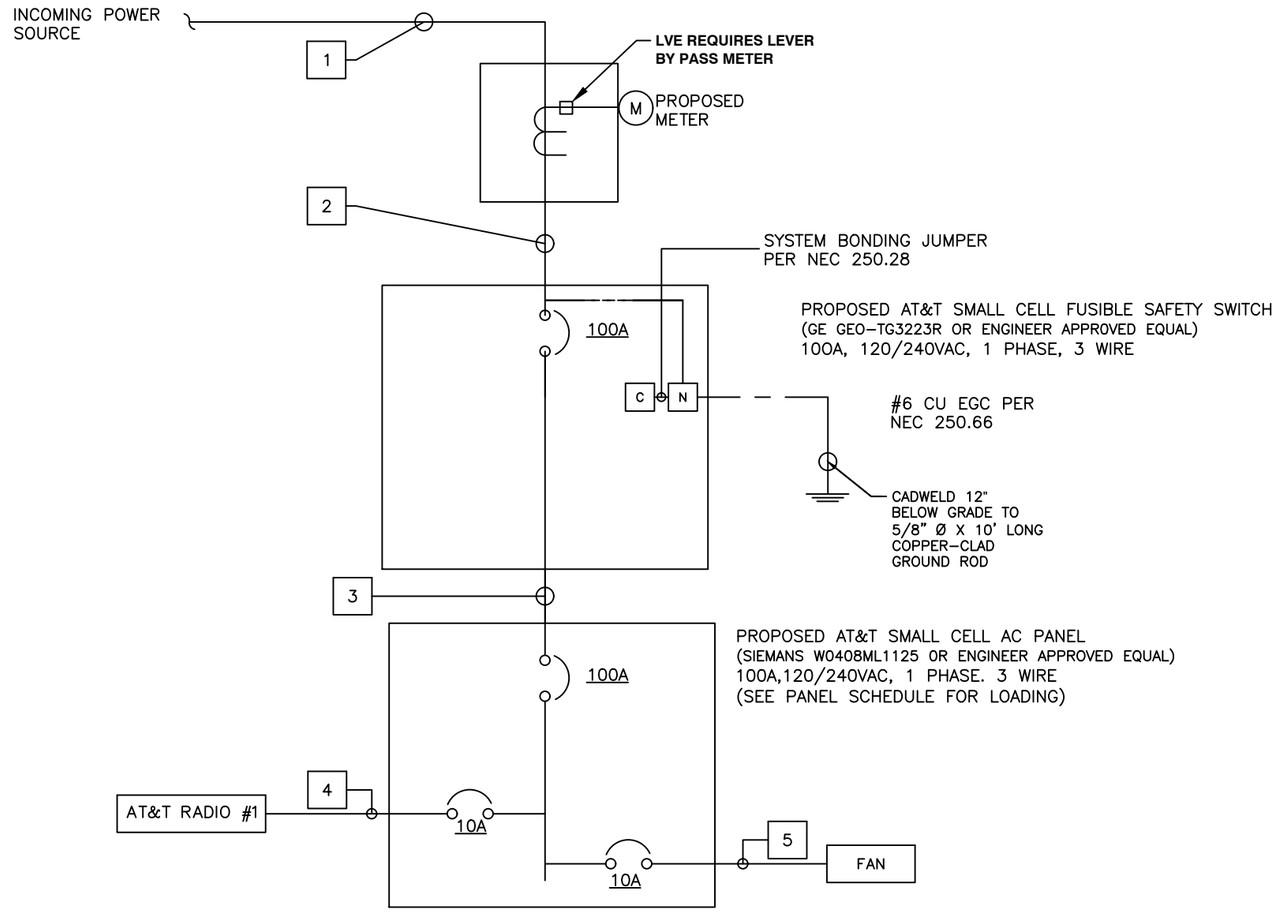
SHEET NUMBER
RF-1

NO	FROM	TO	CONFIGURATION
1	INCOMING ELECTRICAL SERVICE P.O.C	PROPOSED METER	CONDUCTORS AND CONDUIT PER UTILITY
2	PROPOSED METER	PROPOSED FUSIBLE SAFETY SWITCH	(3) #1 CU THWN – 2
3	PROPOSED FUSIBLE SAFETY SWITCH	PROPOSED AC LOAD CENTER	(3) #1 CU THWN – 2 (1) #6 CU EGC
4	PROPOSED AC LOAD CENTER	AT&T RADIO #1	(2) #14 CU THWN – 2 (1) #14 CU EGC
5	PROPOSED AC LOAD CENTER	FAN	(2) #14 CU THWN – 2 (1) #14 CU EGC

120VAC FEEDER CONDUCTOR MAXIMUM DISTANCE		
#14 AWG	70'–0"	3% VOLT DROP @ 6.7A
#12 AWG	135'–0"	3% VOLT DROP @ 6.7A
#10 AWG	225'–0"	3% VOLT DROP @ 6.7A
#8 AWG	345'–0"	3% VOLT DROP @ 6.7A

NOTES:

1. ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN–2, THW–2, RHW–2. XHHW–2 WIRE UNLESS NOTED OTHERWISE.
2. ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "AT&T SMALL CELL" WITH BRASS OR FIBERGLASS TAGS.
3. ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NAT10NAL ELECTRIC CODE (NEC).



Site Name:	AT&T SMALL CELL - MICRO					MODEL NUMBER:		SIEMENS W0408ML1125								
SITE NUMBER:						PHASE:		1				WIRE:		3		
VOLTAGE:	240	/120	Volts AC			BUS S RATING:		125	AMPS							
MAIN BREAKER:	100	AMPS														
MOUNT:	SURFACE															
ENCLOSURE TYPE:	NEMA 3R															
PANEL STATUS:	PROPOSED															

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	AT&T RADIO #1	15	1	NEW	150	1.00	1.00	150	56	1.00	1.00	150	NEW	1	10	FAN	2
3																	4
5																	6
7																	8
								PHASE A	PHASE B								
								150	56	VA							
	1. PANEL SCHEDUEL LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.								TOTAL	KVA	0.38						
										AMPS	1.72	≤ 80% OF MAIN BREAKER					

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TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

ADDRESS
617 E HALL AVENUE
JACKSON, WYOMING 83001

SITE ID
IDL07034F_R03_A

NODE USID
280097

CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07034F_R03_A

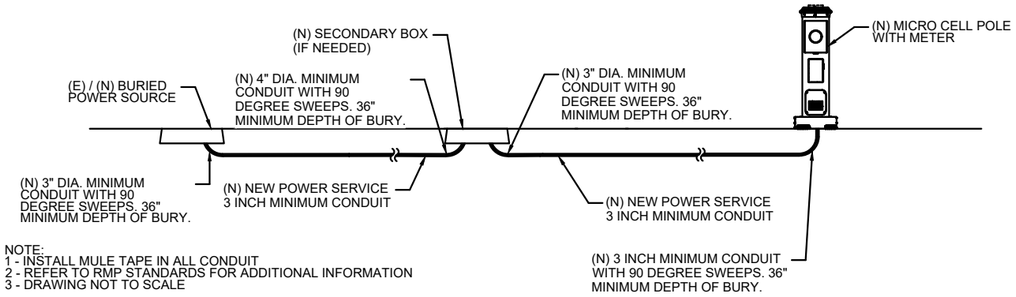
REV	DATE	DESCRIPTION
0	10/16/2019	PRELIMINARY CONSTRUCTION DRAWING
1	11/20/2019	PRELIMINARY REV 1
2	12/19/2019	95% CONSTRUCTION DRAWING
3	11/11/2021	CLIENT COMMENTS

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-1

ELECTRICAL ONE-LINE DIAGRAM | 1

PAD MOUNT POWER SOURCE OPTION WITH POLE BASE METER



NOTE:
1 - INSTALL MULE TAPE IN ALL CONDUIT
2 - REFER TO RMP STANDARDS FOR ADDITIONAL INFORMATION
3 - DRAWING NOT TO SCALE

LVE FIELD CONTACT
RICK KNORI 307-733-2446

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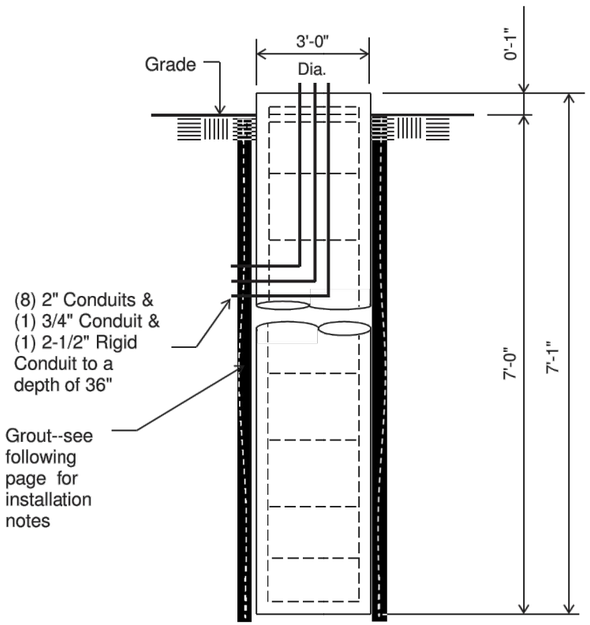
SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-2

No.: 20-5050-EPG Opt. 6
Date: 05/01/20
By: KJT

Customer: SMARTLINK, LLC
Site: CRAN_JCKSN_6 (Node 280095) Wyoming Market 20" Base Smart Stack (30' AGL)
25.33' Smart Stack



ELEVATION VIEW
(1.85 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

1) Concrete shall have a minimum 28-day compressive strength of 5,000 psi, in accordance with ACI 318-14.

2) Rebar to conform to ASTM specification A615 Grade 60.

3) All rebar to have a minimum of 3" concrete cover.

4) All exposed concrete corners to be chamfered 3/4".

5) The foundation design is based on presumptive clay soil as defined in ANSI/TIA-222-H-2017.

6) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier	
Pier	(12) #6 vertical rebar w/ #3 ties, (3) within top 5" of pier, then 12" C/C

7101 Southbridge Drive - P.O. Box 658 - Sioux City, IA 51102-0658 - Phone 712.258.6690 - Fax 712.279.0814

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SHEET TITLE
SABRE FOUNDATION DETAILS

SHEET NUMBER
F-1

VIEW 1 EXISTING

VIEW 2 EXISTING

*Final lighting fixture design may vary and is subject to the pole manufacturers' production capabilities

PHOTOGRAPHIC SIMULATIONS

VIEW 1 PROPOSED

VIEW 2 PROPOSED

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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR – SMARTLINK, LLC
   SUBCONTRACTOR– GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER – AT&T MOBILITY
   OEM – ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES 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 CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR 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.
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
7. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
9. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF 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.
10. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
12. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
13. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
14. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES.
15. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
16. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
17. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PLANELOAD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP USE LOW PROFILES TIE WRAPS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. 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 RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. 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 BTS EQUIPMENT.
4. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
5. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
6. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
7. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
8. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
9. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
10. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
11. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.
12. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
13. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
14. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
15. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
16. GROUND RING SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICH EVER IS DEEPER.
17. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
18. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY. 8. GROUND BARS: A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
19. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
20. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
21. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).

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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

PROJECT DESCRIPTION

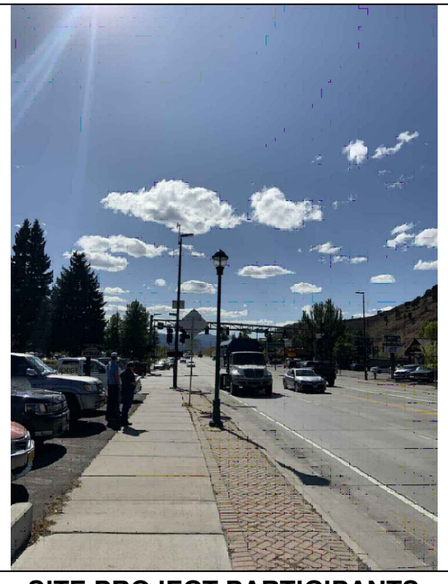
- AT&T TO REPLACE EXISTING POLE LIGHT WITH NEW 30'-0" METAL SABRE SMARTSTACK STEALTH LIGHT POLE
- INSTALL CANISTER ANTENNA ON NEW MOUNT
- INSTALL RRH UNITS INSIDE STEALTH POLE
- INSTALL METER INSIDE CABINET
- INSTALL LOAD CENTER INSIDE STEALTH POLE
- POLE COLOR: MOSS GREEN RAL#6005

PROJECT INFORMATION

SITE ADDRESS:	490 W BROADWAY AVE JACKSON, WYOMING 83001	COUNTY:	TETON
		JURISDICTION:	JACKSON
		ZONING DISTRICT:	PO
LATITUDE:	43.478774° N	ADJACENT PARCEL #:	22-41-16-33-1-00-003
LONGITUDE:	-110.769544° W	POLE #:	N/A
GROUND ELEVATION:	6213'±	RFDS DATE:	N/A
4G ANT. TIP HEIGHT:	29'-9"	RFDS REVISION #:	N/A

DRAWING INDEX

SITE PHOTO



SITE PROJECT PARTICIPANTS

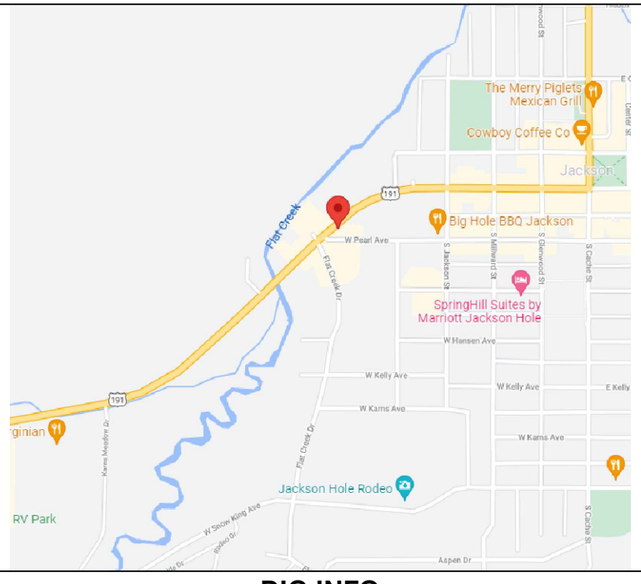
	NAME	COMPANY	NUMBER
A&E	OLIVER RADACK	TRYLON TSF	855-669-5421
SAC	PAUL TOPHAM	SMARTLINK, LLC	801-913-1011
RF	TROY JOHNSON	AT&T	720-244-1913
POWER COMPANY	RICK KNORI	LVE	307-733-2446
TEL. COMPANY	VERONICA BONILLA PM	AT&T	619-204-7826
	JIM MCGEE CM	AT&T	720-891-3935

SITE ID: IDL07035F_R01 - LTE1C - Pico Cell - 2017H2b(CRAN_JCKSN_013)
NODE USID: 293302 NODE FA: 14891535
1C PACE ID: MRUTH032619
CLUSTER NAME: CRAN_RUTH_JCKSN
CONSTRUCTION DRAWINGS

SITE ADDRESS

SITE IS LOCATED APPROXIMATELY 60 FEET NORTH OF THE S/W TRAFFIC SIGNAL POLE AT THE INTERSECTION OF BROADWAY AVE AND PEARL ST. SITE IS ON THE EAST SIDE OF BROADWAYS AVE IN A PARK STRIP.

VICINITY MAP



DIG INFO

CONTACT 811 AT LEAST TWO BUSINESS DAYS BEFORE DIGGING AND PROVIDE ACCURATE DIG SITE LOCATION INFORMATION.

Blue Stakes of UTAH 811 Bluestakes.org

APPLICABLE BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
[INTERNATIONAL BUILDING CODE (IBC), 2018 AS ADOPTED BY THE LOCAL JURISDICTION]

ELECTRICAL CODE:
[NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2007, NATIONAL ELECTRICAL CODE, 2017 AS ADOPTED BY THE LOCAL JURISDICTION]

LIGHTNING PROTECTION CODE:
[NFPA 780 - 2002, LIGHTNING PROTECTION CODE]

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, THIRTEENTH EDITION ANSI/TIA 222-G, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SCALING DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

at&t Mobility
4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

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DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

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REV	DATE	DESCRIPTION
8	11/11/21	CLIENT COMMENTS
9	11/23/21	CLIENT COMMENTS

SHEET TITLE
TITLE SHEET

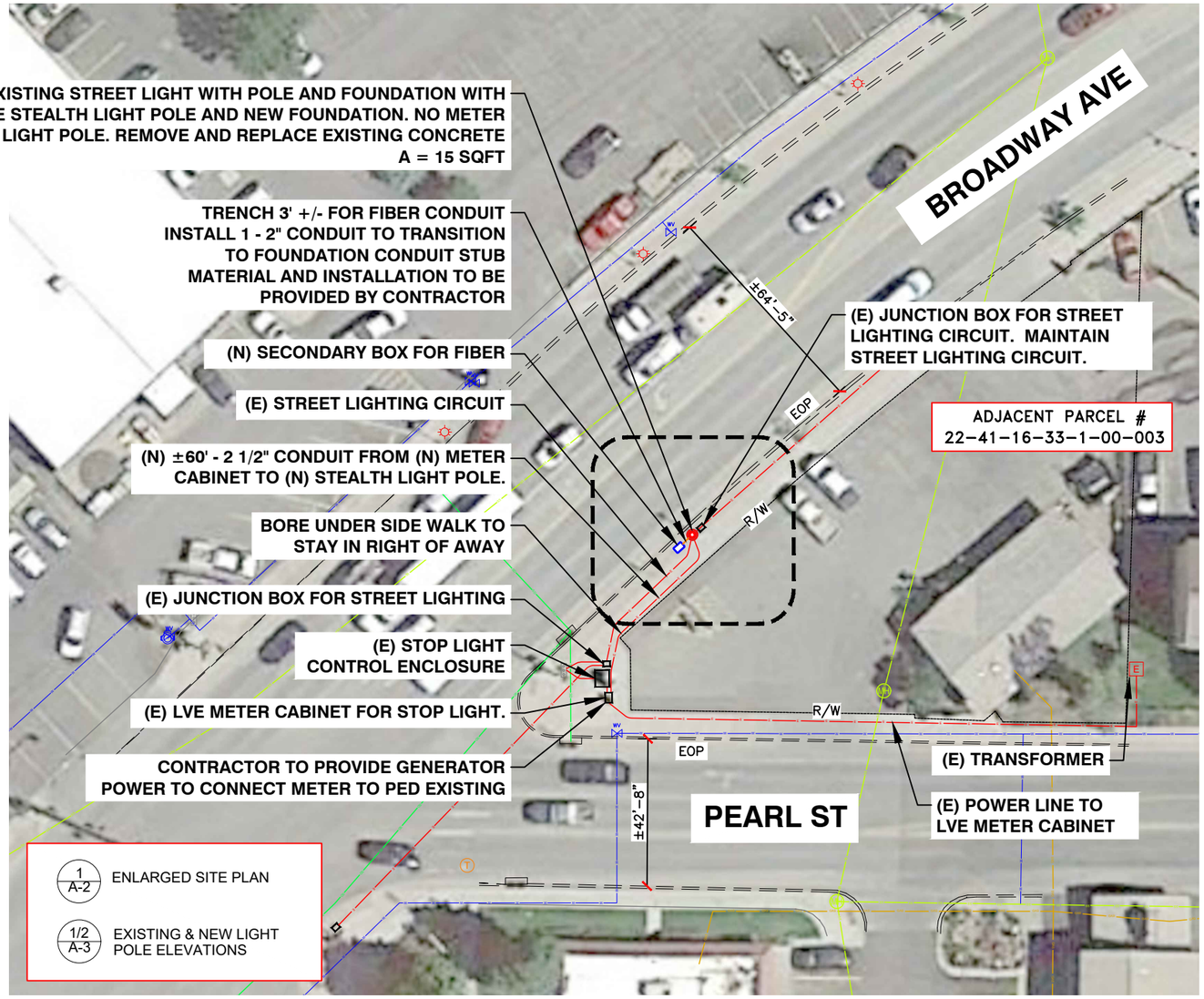
SHEET NUMBER
T-1

PROJECT NOTES

1. ALL EXISTING DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY NEW POLE LOCATION, RIGHT OF WAY AND EXISTING UTILITY LOCATION PRIOR TO COMMENCEMENT OF WORK.
2. VERIFY ELECTRICAL AND FIBER DESIGN WITH UTILITY PROVIDER DESIGN AND STANDARDS.
3. CONTRACTOR TO REPLACE AND REPAIR ANY LANDSCAPING OR ASSOCIATED WATERING SYSTEMS DAMAGED DURING CONSTRUCTION.
4. ALL SHOWN UTILITIES IDENTIFIED PER BLUESTAKE AS RECORDED ON SURVEY. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.

NOTE

A. THIS IS A STEALTH FACILITY, DESIGNED TO LOOK LIKE SOMETHING OTHER THAN A SMALL WIRELESS FACILITY, SUCH THAT THE NATURE AND PURPOSE OF THE POLE IS NOT OBVIOUS TO A REASONABLE OBSERVER. IN THIS CASE THE FACILITY MIMICS A STREETLIGHT DESIGN. THE QUALITIES AND CHARACTERISTICS THAT MUST BE RETAINED THAT MAKE THIS FACILITY STEALTH ARE AS FOLLOWS:
   I. THE APPLICATION IS FOR A STEALTH POLE WITH ANTENNAS ENCLOSED IN A SHROUD WHOSE SIZE IS CONSISTENT WITH AND IN PROPORTION TO THE OVERALL DESIGN OF THE POLE; AND
   II. ALL WIRING IS INTERNAL TO THE STEALTH POLE, WHICH IS AN INTEGRAL ELEMENT TO ENSURING THE POLE APPEARS TO BE A STREETLIGHT OR SIMILAR POLE, EVEN IF IT LACKS A LIGHT AT THIS TIME. THE FOLLOWING APPLIES TO THE EQUIPMENT LOCATION:
   III. THERE SHALL BE NO EXTERNAL EQUIPMENT, AND NO APPURTENANCE ATTACHED TO THE POLE HORIZONTALLY, VERTICALLY, OR OTHERWISE; AND
   IV. CONSISTENT WITH STREETLIGHT DESIGN, THIS FACILITY'S STEALTH FEATURES, AND THAT THE SIZE OF THE FACILITY IS DESIGNED TO MAKE IT LESS OBVIOUS, THERE IS AND SHALL BE NO EQUIPMENT OR APPURTENANCES ATTACHED IN ANY WAY TO THE POLE; AND
   V. THERE ARE AND SHALL BE NO VISIBLE ABOVE GROUND CABINETS; AND
   VI. THE BASE OF THE POLE INCLUDING ITS SIZE AND DESIGN, FITS WITH THE DESIGN OF OTHER POLES NEARBY.
B. FACILITY SHALL MAINTAIN THE STEALTH DESIGN FOR THE ENTIRETY OF THE TIME THAT THE FACILITY IS IN PLACE, TO INCLUDE REPAINTING AND REPAIR SO THAT IT IS CONSISTENT WITH OTHER STREETLIGHT POLES.
C. FACILITY SHALL BE MAINTAINED IN GOOD WORKING ORDER AND PROMPTLY REPAIRED.
D. PRIOR TO CONSTRUCTION OF THIS FACILITY THE COMMUNICATIONS/FIBER PROVIDER MUST BE IDENTIFIED AND OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN FOR THEIR ANCILLARY WORK.
E. PRIOR TO CONSTRUCTION OF THIS FACILITY THE POWER PROVIDER MUST BE IDENTIFIED AND OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN FOR THEIR ANCILLARY WORK.
F. PRIOR TO CONSTRUCTION OF THIS FACILITY THE CONTRACTOR MUST OBTAIN AN ISSUED PUBLIC RIGHT-OF-WAY (ENCROACHMENT) PERMIT FROM THE TOWN.



LEGEND

PROPERTY(EXISTING)
- RIGHT-OF-WAY LINE(APPARENT)
- RANGE LINE(APPARENT)
- PROPERTY LINE(APPARENT)
- HISTORIC LOT LINE(APPARENT)
- ZONE DISTRICT LINE(APPARENT)

EXISTING UTILITIES
- OHT — OVERHEAD TELEPHONE
- T — TELEPHONE
- CTV — CABLE TV
- OHE — OVERHEAD ELECTRIC
- E — ELECTRIC
- OHU — OVERHEAD UTILITY
- FO — FIBER OPTIC
- GAS — NATURAL GAS
- W — WATER
- SS — SANITARY SEWER
- SD — STORM SEWER

PROPOSED UTILITIES
- OHE — OVERHEAD ELECTRIC
- E — ELECTRIC
- FO — FIBER OPTIC

EXISTING LANDSCAPE
- BLOCK WALL
- CHAINLINK FENCE
- GUARDRAIL
- FENCE
- VEGETATION LINE

SYMBOL KEY
- CONTROL POINT
- FOUND MONUMENT
- FOUND ALUMINUM CAP
- BOLLARD
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC RISER
- ELECTRIC TRANSFORMER
- FIBER OPTIC PEDESTAL
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- MONITORING WELL
- SANITARY SEWER MANHOLE
- SIGN
- STORM DRAIN MANHOLE
- STREET LIGHT
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- UTILITY POLE
- WATER MANHOLE
- WATER VALVE
- SPRINKLER HEAD
- IRRIGATION CONTROL VALVE
- WATER METER

Blue Stakes of UTAH 811 Bluestakes.org

NORTH

FULL SCALE (22x34 SHEET ONLY) 1" = 10'
20' 10' 0 10' 20'
HALF SCALE (11x17 SHEET ONLY) 1" = 20'

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DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07035F_R01

REV	DATE	DESCRIPTION
8	11/11/21	CLIENT COMMENTS
9	11/23/21	CLIENT COMMENTS

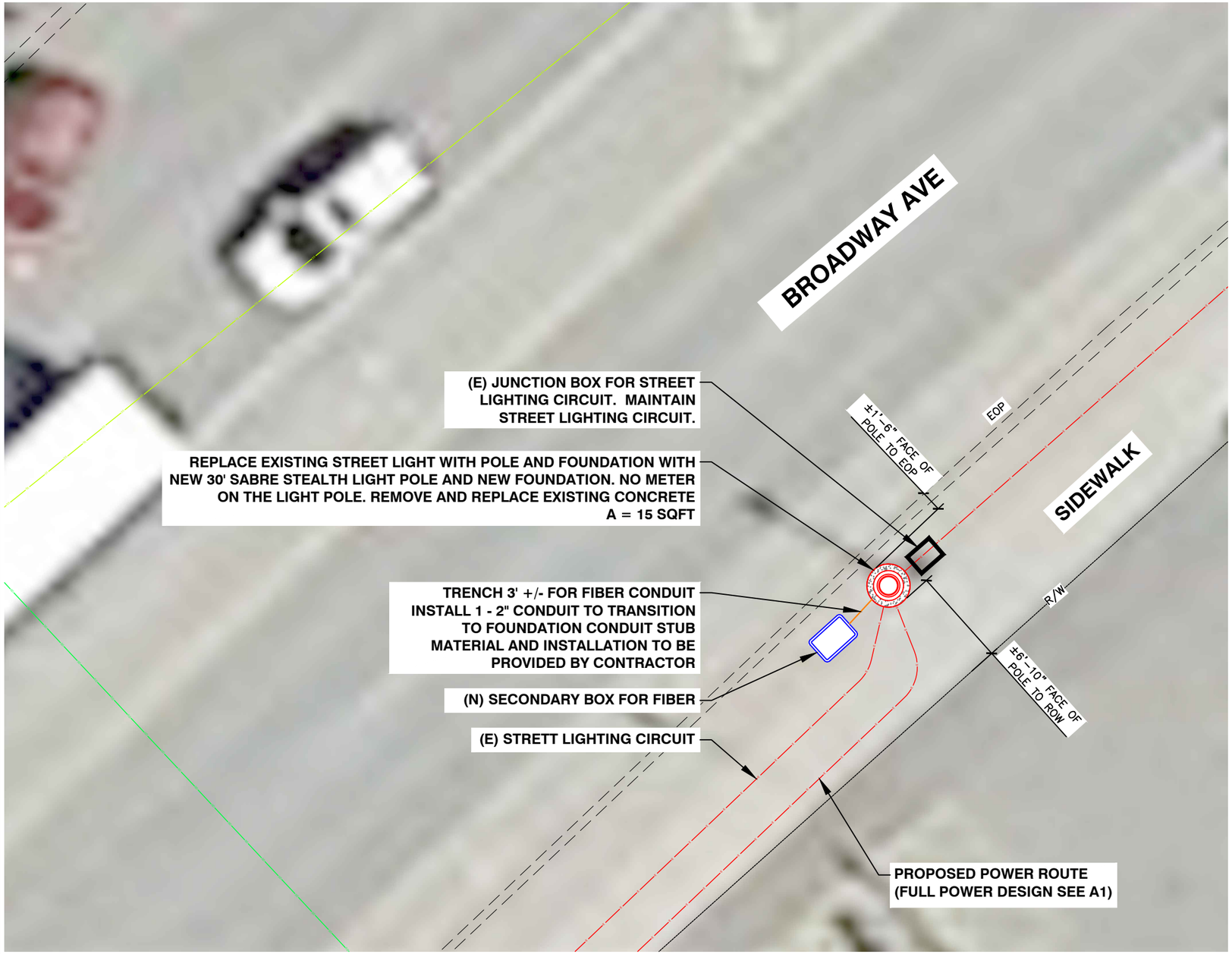
SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1

NOTE:

1 - GRADING AND GRASS TO BE RETURNED TO ORIGINAL CONDITION.

2 - CONTRACTOR TO REFERENCE RFDS FOR RF SPECIFIC DETAILS.



LEGEND

PROPERTY(EXISTING)
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EXISTING LANDSCAPE
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- FOUND MONUMENT
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Blue Stakes of UTAH 811 Bluestakes.org

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20' 10' 0 10' 20'
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DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07035F_R01

REV	DATE	DESCRIPTION
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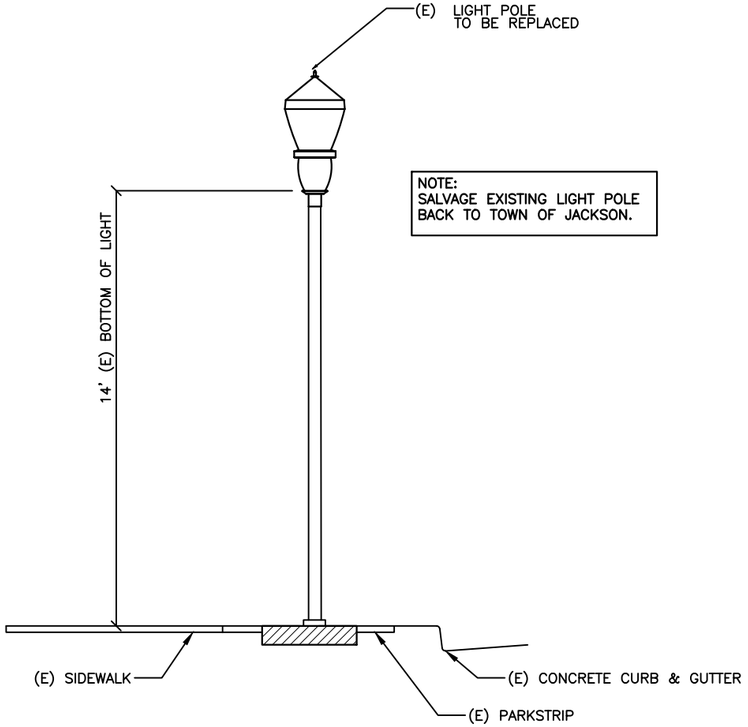
9	11/23/21	CLIENT COMMENTS

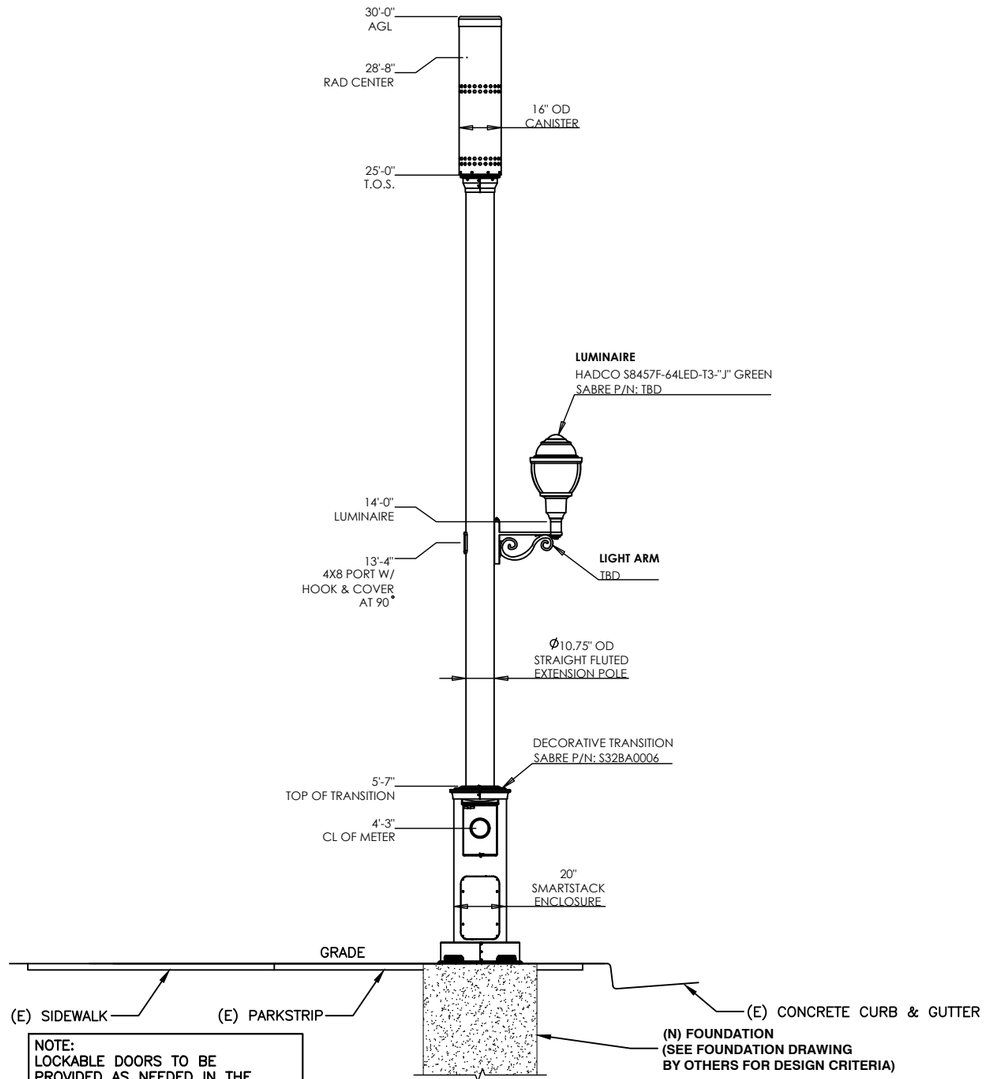
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-2

NOTE:
SALVAGE EXISTING LIGHT POLE
BACK TO TOWN OF JACKSON.



EXISTING POLE ELEVATION 1



NEW POLE ELEVATION 2

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REV	DATE	DESCRIPTION
8	11/11/21	CLIENT COMMENTS
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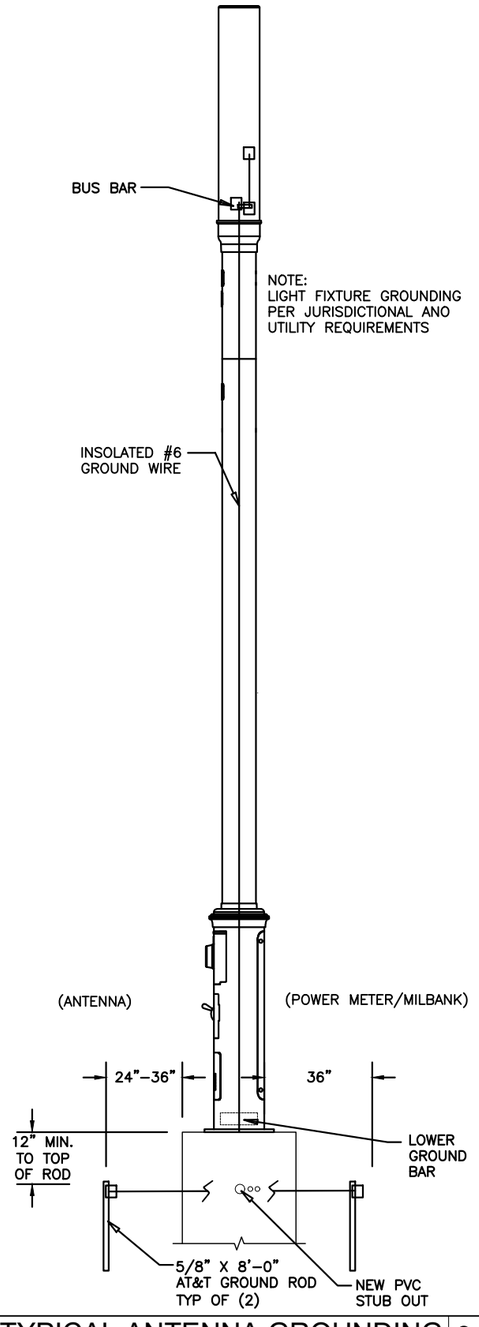
SHEET TITLE
EXISTING & NEW LIGHT POLE ELEVATIONS

SHEET NUMBER
A-3

NOTES:

- IF A SINGLE GROUND ROD DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS, IT SHALL BE SUPPLEMENTED BY AN ADDITIONAL GROUND ROD. SEPARATION BETWEEN GROUND RODS MUST BE AT A MINIMUM DISTANCE OF 6'



TYPICAL ANTENNA GROUNDING | 3

NOTES:

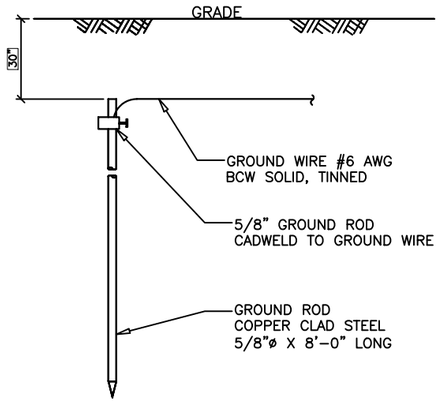
1. MAINTAIN 36" CLEARANCE FROM ANY EXISTING GROUND RODS.

2. CONTRACTOR TO FEED #2 AWG WIRE THROUGH HAND HOLE FROM GROUNDING ROD MEASURING NO MORE THAN 8" IN LENGTH. TAG PLACED AT END OF WIRE FOR GROUND TESTING.

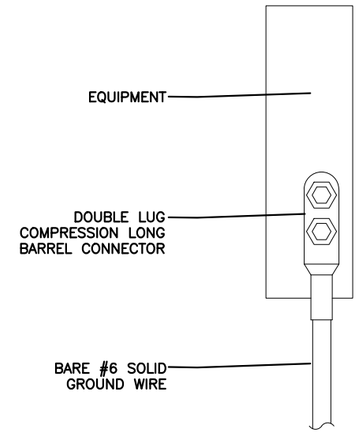
3. GROUND ROD TO BE LOCATED WITHIN 36" RANGE FROM POLE ADJACENT TO HAND HOLE. NO FURTHER THAN 4" AWAY FROM HAND HOLE.

4. CONTRACTOR TO REPLACE EACH CONCRETE SIDEWALK SECTION WHERE WORK HAS BEEN DONE.

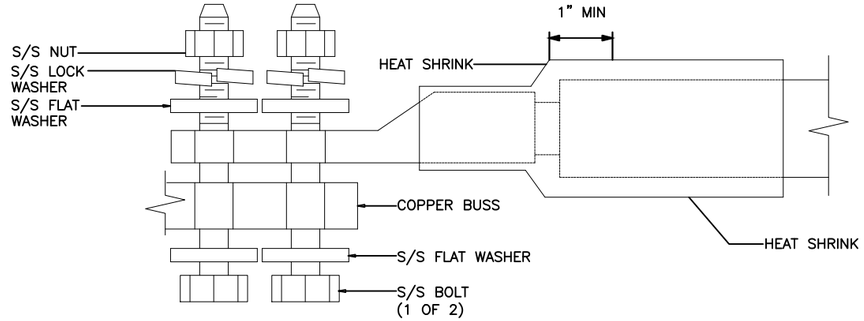
NOTES | 6



GROUND ROD | 5



GROUND TO EQUIPMENT | 4



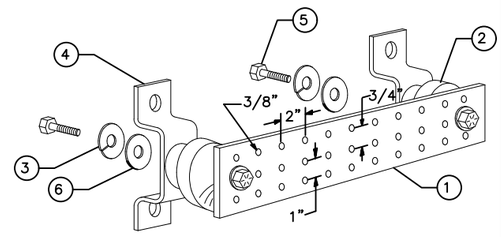
NOTE:

1. ALL HARDWARE 18–8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH ANTI–OXIDANT COMPOUND BEFORE MATING.

2. ALL HARDWARE SHALL BE S/S 3/8" ø OR LARGER

3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI–OXIDANT COMPOUND BEFORE MATING.

TWO LUG GROUND | 2



LEGEND:

1– TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B–6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.

2– INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061–4

3– 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015–8

4– WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A–5056

5– 5/8–11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012–1

6– 5/8" FLAT WASHERS, NEWTON INSTRUMENT CO. CAT NO. TBD

GROUND BAR | 1

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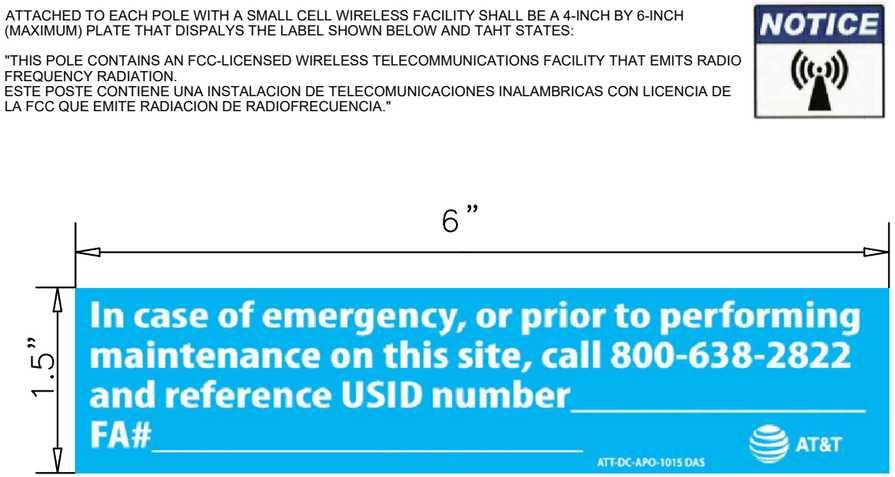
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

ATTACHED TO EACH POLE WITH A SMALL CELL WIRELESS FACILITY SHALL BE A 4-INCH BY 6-INCH (MAXIMUM) PLATE THAT DISPALYS THE LABEL SHOWN BELOW AND TAHT STATES:

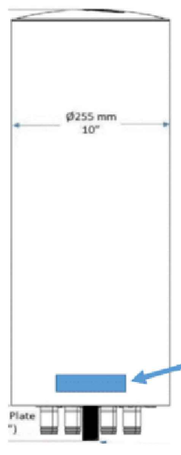
"THIS POLE CONTAINS AN FCC-LICENSED WIRELESS TELECOMMUNICATIONS FACILITY THAT EMITS RADIO FREQUENCY RADIATION.
ESTE POSTE CONTIENE UNA INSTALACION DE TELECOMUNICACIONES INALAMBRICAS CON LICENCIA DE LA FCC QUE EMITE RADIACION DE RADIOFRECUENCIA."



NOTE:
WARNING SIGNS TO BE MOUNTED, IN VIEW, ON EQUIPMENT ENCLOSURE

NOTE:
INSTALL PER MANUFACTURER SPECIFICATIONS AND FCC.

NOTE:
INSTALL SITE ID PLATE ON POLE BASE ABOVE EQUIPMENT ACCESS DOOR.



Available from Excel Sign and Decal:
https://www.weneedsigns.com/home.php?cat=1135 and click on AT&T
Ph: 510-651-0445

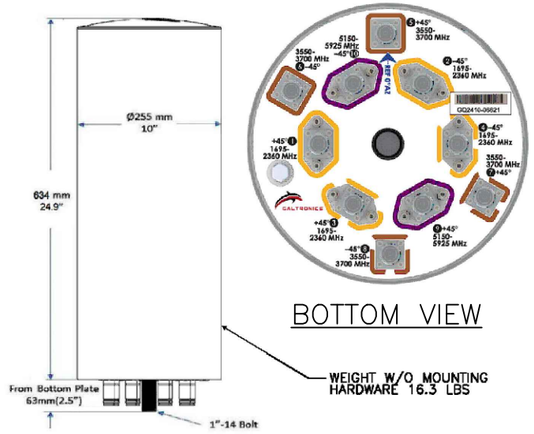
NO1-DC-16 1"X6" NOTICE DECAL

"For 1 Foot Distance" VINYL DECAL WITH ADHESIVE BACKING

1 order comes in a pack of 25

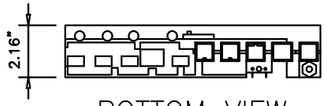
Apply two NOTICE stickers opposite each other around the bottom of the radome.

NOTE:
1 – PLACE THREE AT&T 1”X6” NOTICE STICKERS EQUALLY SPACED AT OR NEAR THE BOTTOM RADOME.
2 – REFERENCE RFDS FOR RF SPECIFIC DETAILS

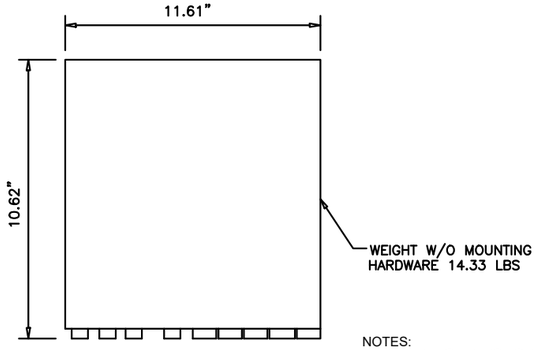


ANTENNA PROFILE

BOTTOM VIEW



BOTTOM VIEW

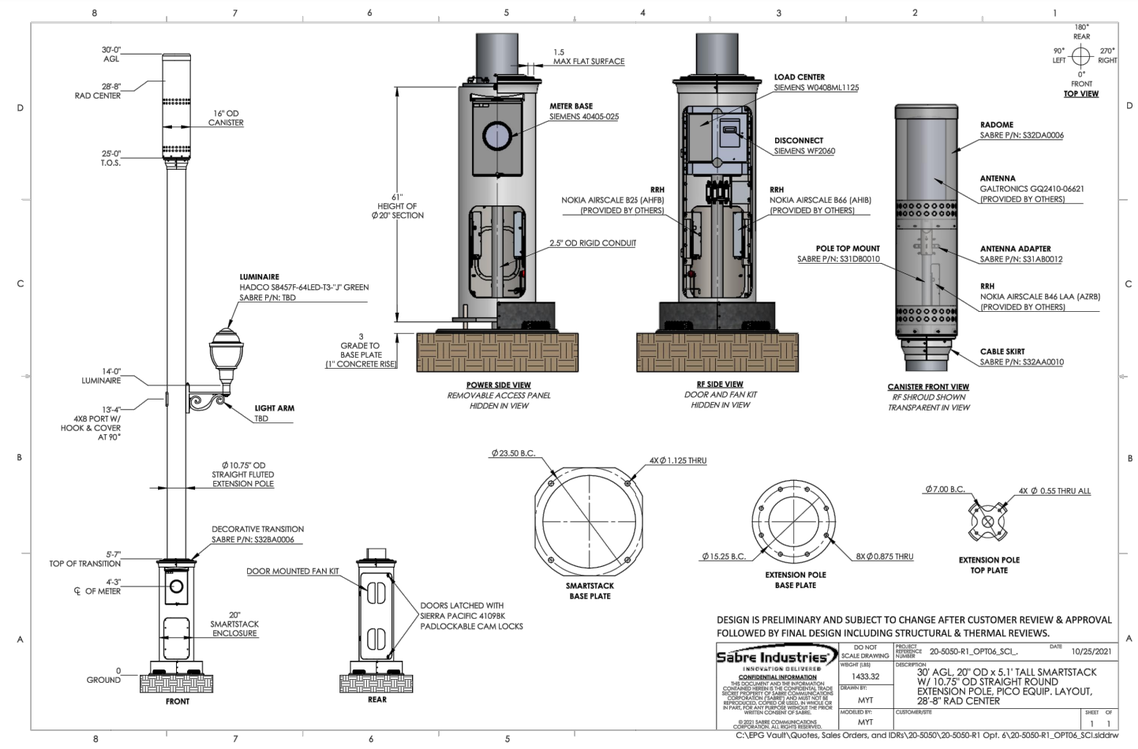


SIDE VIEW

NOTES:
1 - REFERENCE RFDS FOR RF SPECIFIC DETAILS

ANTENNA	5	RRH	4

FOR INFORMATION ONLY - RF CENTRIC COMPONENTS SHOULD BE OBTAINED FROM THE RFDS (I.E. RRH & ANTENNA)



GENERIC RF WARNING SIGNS AND LABELS REFER TO RS100	2	SMART STACK PICO POLE DESIGN DETAILS	1

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ADDRESS
490 W BROADWAY AVE
JACKSON, WYOMING 83001

SITE ID
IDL07035F_R01

NODE USID
293302

CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07035F_R01

REV	DATE	DESCRIPTION
8	11/11/21	CLIENT COMMENTS
9	11/23/21	CLIENT COMMENTS

SHEET TITLE
RF & EQUIPMENT DETAILS

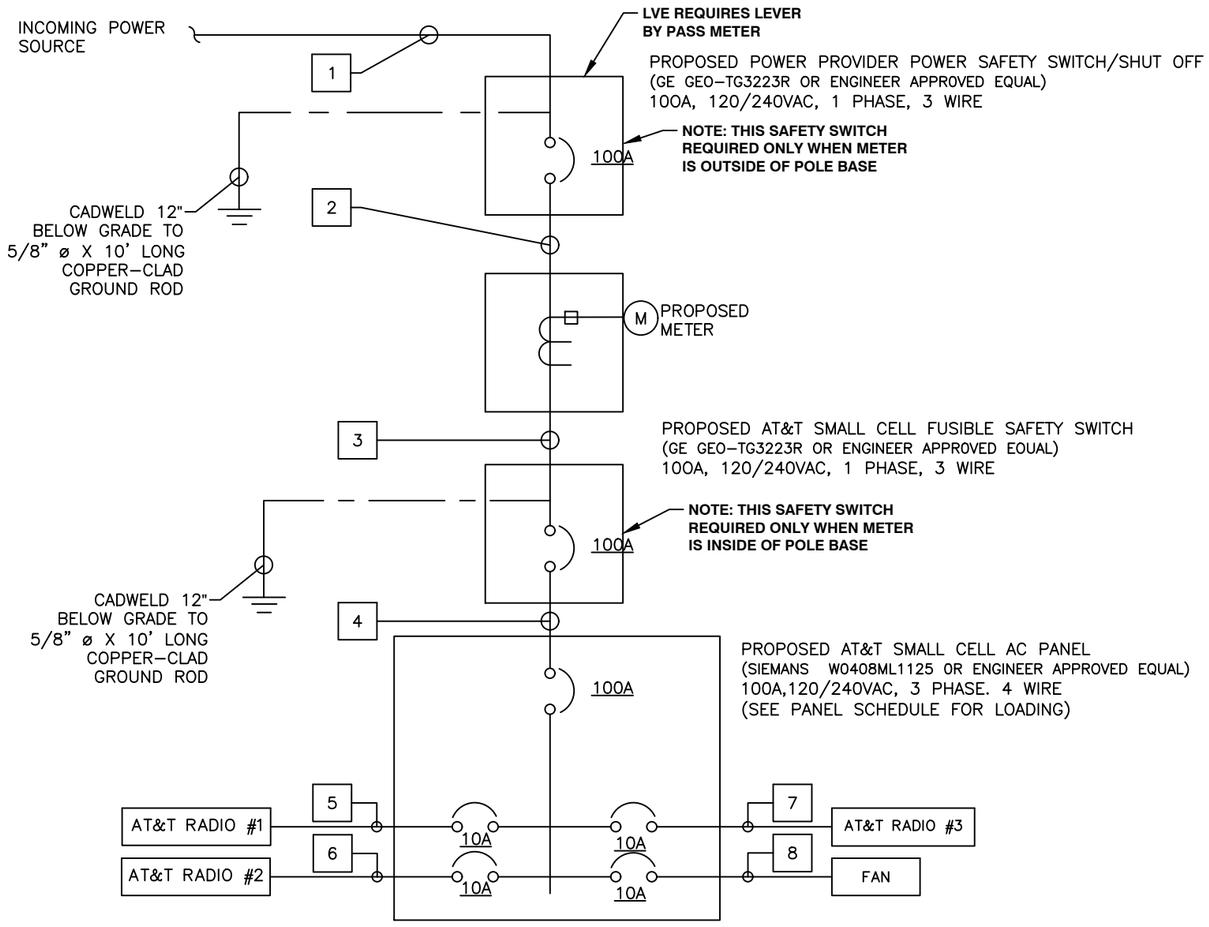
SHEET NUMBER
RF-1

NO	FROM	TO	CONFIGURATION
1	INCOMING ELECTRICAL SERVICE P.O.C	PROPOSED METER	CONDUCTORS AND CONDUIT PER
2	PROPOSED METER	PROPOSED FUSIBLE SAFETY SWITCH	(3) #1 CU THWN – 2
3	PROPOSED FUSIBLE SAFETY SWITCH	PROPOSED AC LOAD CENTER	(3) #1 CU THWN – 2 (1) #6 CU EGC
4	PROPOSED FUSIBLE SAFETY SWITCH	PROPOSED AC LOAD CENTER	(2) #14 CU THWN – 2 (1) #14 CU EGC
5	PROPOSED AC LOAD CENTER	AT&T RADIO #1	(2) #14 CU THWN – 2 (1) #14 CU EGC
6	PROPOSED AC LOAD CENTER	AT&T RADIO #2	(2) #14 CU THWN – 2 (1) #14 CU EGC
7	PROPOSED AC LOAD CENTER	AT&T RADIO #3	(2) #14 CU THWN – 2 (1) #14 CU EGC
8	PROPOSED AC LOAD CENTER	FAN	(2) #14 CU THWN – 2 (1) #14 CU EGC

120VAC FEEDER CONDUCTOR MAXIMUM DISTANCE		
#14 AWG	70'–0"	3% VOLT DROP @ 6.7A
#12 AWG	135'–0"	3% VOLT DROP @ 6.7A
#10 AWG	225'–0"	3% VOLT DROP @ 6.7A
#8 AWG	345'–0"	3% VOLT DROP @ 6.7A

NOTES:

1. ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN–2, THW–2, RHW–2. XHHW–2 WIRE UNLESS NOTED OTHERWISE.
2. ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "AT&T SMALL CELL" WITH BRASS OR FIBERGLASS TAGS.
3. ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NAT1ONAL ELECTRIC CODE (NEC).



Site Name:	AT&T SMALL CELL - PICO					MODEL NUMBER:		SIEMENS W0408ML1125								
SITE NUMBER:						PHASE:		1				WIRE:		3		
VOLTAGE:	240	/120	Volts AC			BUS S RATING:		125	AMPS							
MAIN BREAKER:	100	AMPS														
MOUNT:	SURFACE															
ENCLOSURE TYPE:	NEMA 3R															
PANEL STATUS:	PROPOSED															

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	AT&T RADIO #1	10	1	NEW	150	1.00	1.00	150	56	1.00	1.00	56	NEW	1	10	FAN	2
3	AT&T RADIO #2	10	1	NEW	150	1.00	1.00	150	150	1.00	1.00	150	NEW	1	10	AT&T RADIO #3	4
5																	6
7																	8
								PHASE A	PHASE B								
								300	206		VA						
	1. PANEL SCHEDUEL LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.								TOTAL		KVA	0.51					
											AMPS	4.217	≤ 80% OF MAIN BREAKER				

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4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

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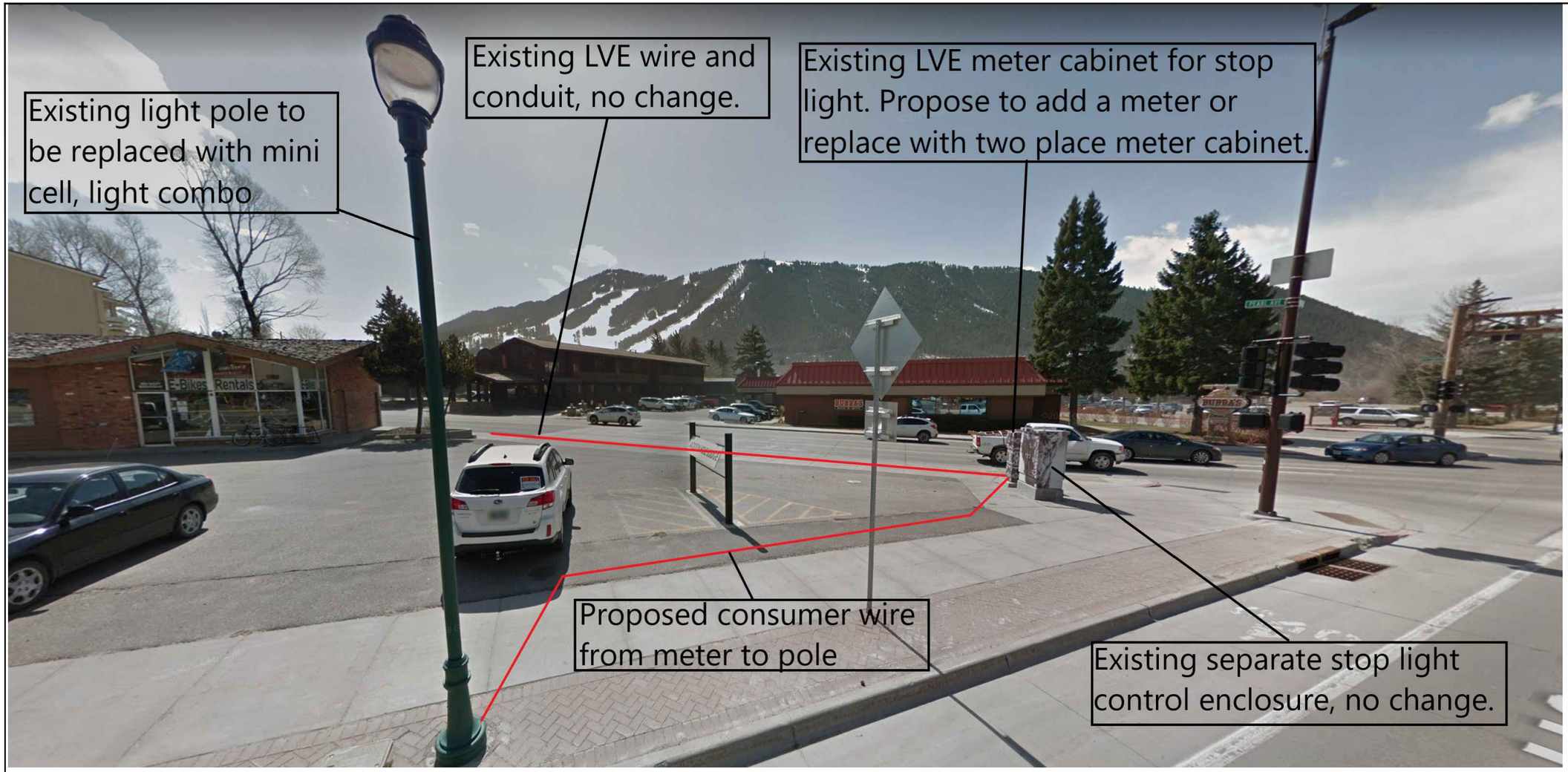
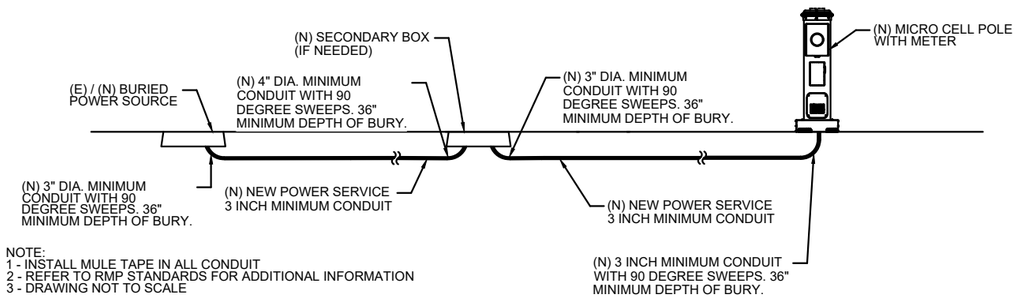
ELECTRICAL DETAIL

SHEET NUMBER
E-1

ELECTRICAL ONE-LINE DIAGRAM | 1



PAD MOUNT POWER SOURCE OPTION WITH POLE BASE METER



NOTE:
1 - INSTALL MULE TAPE IN ALL CONDUIT
2 - REFER TO RMP STANDARDS FOR ADDITIONAL INFORMATION
3 - DRAWING NOT TO SCALE

LVE FIELD CONTACT
RICK KNORI 307-733-2446

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SHEET TITLE
ELECTRICAL DETAILS

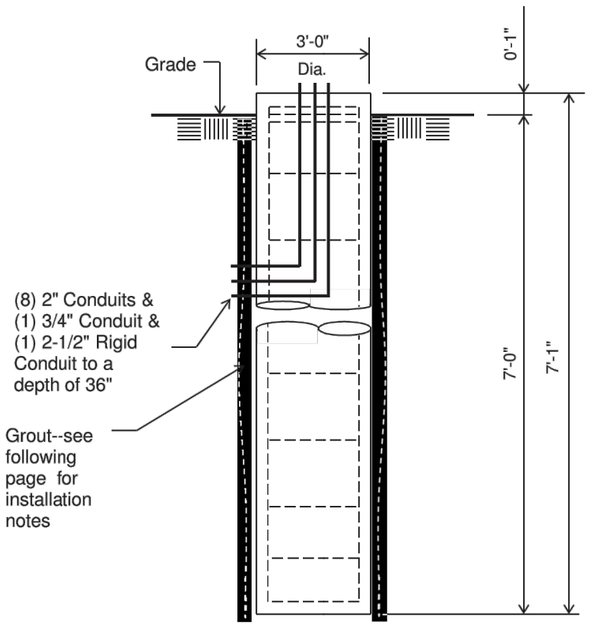
SHEET NUMBER
E-2

NOTE:
ONLY (3) OF THE 2" CONDUITS AND THE (1) 2–1/2" RIGID CONDUIT WILL BE USED FOR THE CURRENT INSTALLATION. (5) 2" CONDUITS RESERVED FOR FUTURE SERVICE.

Sabre Industries™
INNOVATION DELIVERED

No.: 20-5050-EPG Opt. 6
Date: 05/01/20
By: KJT

Customer: SMARTLINK, LLC
Site: CRAN_JCKSN_6 (Node 280095) Wyoming Market 20" Base Smart Stack (30' AGL)
25.33' Smart Stack



ELEVATION VIEW
(1.85 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

1) Concrete shall have a minimum 28-day compressive strength of 5,000 psi, in accordance with ACI 318-14.
2) Rebar to conform to ASTM specification A615 Grade 60.
3) All rebar to have a minimum of 3" concrete cover.
4) All exposed concrete corners to be chamfered 3/4".
5) The foundation design is based on presumptive clay soil as defined in ANSI/TIA-222-H-2017.
6) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier	
Pier	(12) #6 vertical rebar w/ #3 ties, (3) within top 5" of pier, then 12" C/C

7101 Southbridge Drive - P.O. Box 658 - Sioux City, IA 51102-0658 - Phone 712.258.6690 - Fax 712.279.0814

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SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
F-1

VIEW 1 EXISTING

VIEW 2 EXISTING

PHOTOGRAPHIC SIMULATIONS

VIEW 1 PROPOSED

VIEW 2 PROPOSED

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SHEET TITLE
PHOTO SIMULATION DIAGRAM

SHEET NUMBER
S-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR – SMARTLINK, LLC
   SUBCONTRACTOR– GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER – AT&T MOBILITY
   OEM – ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES 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 CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR 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.
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
7. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
9. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF 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.
10. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
12. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
13. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
14. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES.
15. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
16. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
17. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PLANELOAD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP USE LOW PROFILES TIE WRAPS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. 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 RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. 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 BTS EQUIPMENT.
4. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
5. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
6. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
7. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
8. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
9. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
10. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
11. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.
12. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
13. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
14. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
15. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
16. GROUND RING SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICH EVER IS DEEPER.
17. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
18. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY. 8. GROUND BARS: A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
19. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
20. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
21. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).

at&t Mobility
4393 RIVERBOAT ROAD SUITE 400
TAYLORSVILLE, UTAH 84123

smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

ADDRESS
490 W BROADWAY AVE
JACKSON, WYOMING 83001

SITE ID
IDL07035F_R01

NODE USID
293302

CLUSTER NAME
CRAN_RUTH_JCKSN

DRAWN BY: ZCE | CHECKED BY: DB | APPROVED BY: DB

SITE ID: IDL07035F_R01

REV	DATE	DESCRIPTION
8	11/11/21	CLIENT COMMENTS
9	11/23/21	CLIENT COMMENTS

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

EXHIBIT A(3)(B)
JACKSON REPLACEMENT POLES MAP.

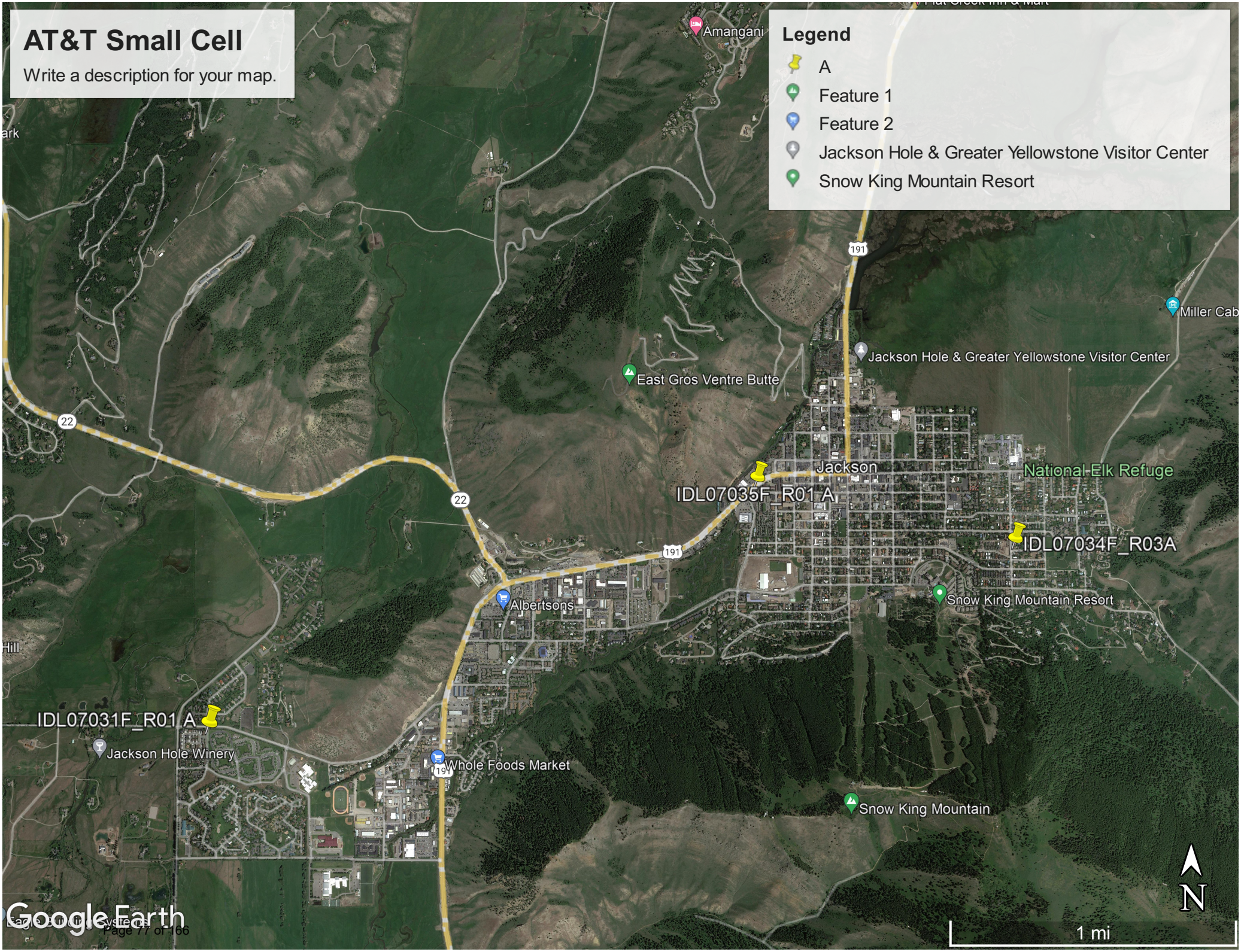
AT&T Small Cell
Write a description for your map.
Legend
A
Feature 1
Feature 2
Jackson Hole & Greater Yellowstone Visitor Center
Snow King Mountain Resort
Amangani
Miller Cab
Jackson Hole & Greater Yellowstone Visitor Center
East Gros Ventre Butte
191
22
Jackson
IDL07035F_R01 A
National Elk Refuge
IDL07034F_R03A
Albertsons
Snow King Mountain Resort
IDL07031F_R01 A
Jackson Hole Winery
Whole Foods Market
Snow King Mountain
N
1 mi
Google Earth

EXHIBIT A(3)(E)
TOWN OF JACKSON CRAN AT&T
SERVICE OBJECTIVES LETTER

AT&T Mobility
2890 South 25th East
Idaho Falls, ID 83404
www.att.com

December 24, 2019

Whom It May Concern at the Town of Jackson, WY, Planning Department,

AT&T's proposed small cell CRAN wireless facilities proposed in the Town of Jackson are designed to enhance the capacity of AT&T network. AT&T's network is facing increasing traffic demand, especially during the summer tourist season. In addition, several nodes will also address coverage gaps.

List of nodes with primary purpose:

- CRAN_JCKSON_001, coverage
- CRAN_JCKSON_002, coverage and capacity
- CRAN_JCKSON_003, capacity
- CRAN_JCKSON_004, capacity and coverage
- CRAN_JCKSON_005, capacity
- CRAN_JCKSON_006, capacity and coverage
- CRAN_JCKSON_007, capacity
- CRAN_JCKSON_008, capacity
- CRAN_JCKSON_009, coverage
- CRAN_JCKSON_010, coverage
- CRAN_JCKSON_011, coverage
- CRAN_JCKSON_012, coverage and capacity
- CRAN_JCKSON_013, capacity
- CRAN_JCKSON_014, coverage and capacity
- CRAN_JCKSON_015, coverage and capacity

Maps below show proposed node locations, colors around nodes display effective service area where the node will provide significant improvement to the AT&T network. The bigger the bubble around the node, the bigger the impact on coverage.

If I can be of further assistance in this matter, please do not hesitate to contact me by phone at (208)317-0011 or by email, jr129e@att.com.

Best regards,

J. Shad Rydalch
AT&T Senior Specialist Radio Access Network Engineer
RF Safety for Rocky Mountain Region
2890 S 25th East, Idaho Falls, Idaho 83404
m 208.317.0011 | jr129e@att.com

Appendex: Maps

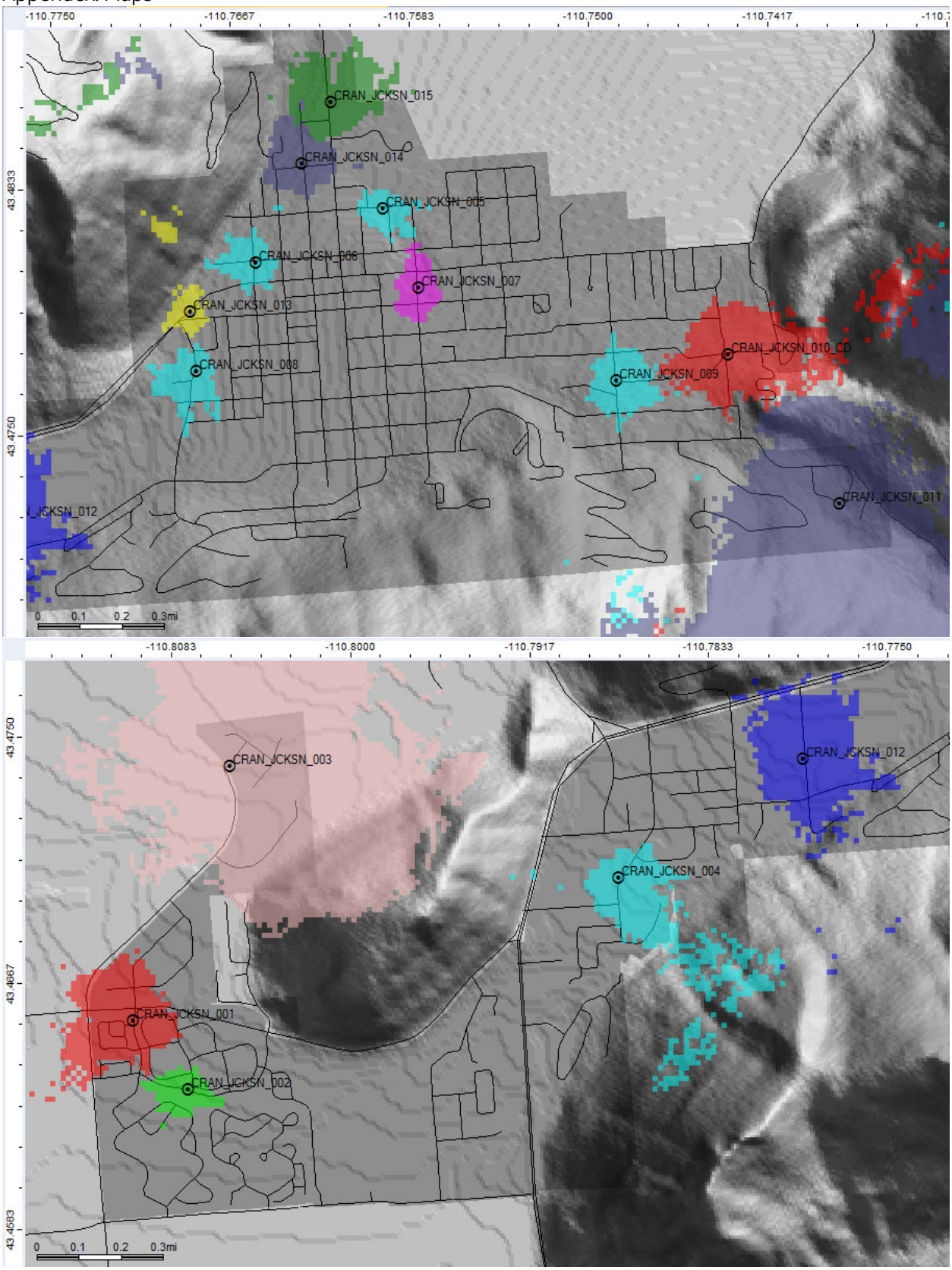

EXHIBIT A(6)
TOWN OF JACKSON CRAN AT&T
FCC CRAN COMPLIANCE LETTER

AT&T Mobility
2890 South 25th East
Idaho Falls, ID 83404
www.att.com

December 17, 2019

Whom It May Concern at the Town of Jackson, WY, Planning Department,

AT&T's proposed CRAN wireless facilities proposed in the Town of Jackson will comply with all Federal Communications Commission ("FCC") Radio Frequency ("RF") exposure rules.

The FCC rules set the maximum permissible exposure allowable from RF transmissions for the general population. The FCC has determined that a person may be exposed to RF emissions below those exposure limits with no harmful effects. The FCC's OET Bulletin 65 (Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields) provides guidance in determining RF exposure levels.

Additionally, the FCC has written OET Bulletin 56 (Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields), an excellent document on RF safety which can be downloaded from http://www.fcc.gov/encyclopedia/radio-frequency-safety

If I can be of further assistance in this matter, please do not hesitate to contact me by phone at (208)317-0011 or by email, jr129e@att.com.

Best regards,

J. Shad Rydalch
AT&T Senior Specialist Radio Access Network Engineer
RF Safety for Rocky Mountain Region
2890 S 25th East, Idaho Falls, Idaho 83404
m 208.317.0011 | jr129e@att.com

AT&T FCC Licenses- Exhibit A5(b)

Total pages- 14

FCC Call Signs:

KNLG448- 3 pages

WPZI367- 2 pages

WPZI368- 2 pages

WQEW880- 2 pages

WQGA788- 3 pages

WQVN854- 2 pages

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign	File Number
KNLG448	
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0014980726

Grant Date	Effective Date	Expiration Date	Print Date
04-07-2017	09-21-2018	04-28-2027	

Market Number	Channel Block	Sub-Market Designator
BTA202	D	0

Market Name
Idaho Falls, ID

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
04-28-2002			

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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.

Grant of this license is without prejudice to any future enforcement action the Commission may determine is appropriate regarding the bidding activities of AT&T Wireless PCS, Inc. in the D, E, and F block PCS auction.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNLG448 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S AKARD ST
DALLAS, TX 75202

Call Sign	File Number
WPZI367	0008689605
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0014980726

Grant Date	Effective Date	Expiration Date	Print Date
08-08-2019	08-08-2019	07-22-2029	08-09-2019

Market Number	Channel Block	Sub-Market Designator
BTA202	C	6

Market Name
Idaho Falls, ID

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-22-2004	07-22-2009		

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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.

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FCC 601-MB
October 2017

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WPZI367 **File Number:** 0008689605 **Print Date:** 08-09-2019

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S AKARD ST
DALLAS, TX 75202

Call Sign	File Number
WPZI368	0008689610
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0014980726

Grant Date	Effective Date	Expiration Date	Print Date
08-08-2019	08-08-2019	07-22-2029	08-09-2019

Market Number	Channel Block	Sub-Market Designator
BTA202	C	8

Market Name
Idaho Falls, ID

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-22-2004	07-22-2009		

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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.

FCC 601-MB
October 2017

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WPZI368 **File Number:** 0008689610 **Print Date:** 08-09-2019

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign	File Number
WQEW880	
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0014980726

Grant Date	Effective Date	Expiration Date	Print Date
06-10-2015	09-25-2018	06-23-2025	

Market Number	Channel Block	Sub-Market Designator
MTA036	A	14

Market Name
Salt Lake City

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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.

FCC 601-MB
October 2017

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WQEW880 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign	File Number
WQGA788	
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0014980726

Grant Date	Effective Date	Expiration Date	Print Date
11-29-2006	09-27-2018	11-29-2021	

Market Number	Channel Block	Sub-Market Designator
REA006	E	35

Market Name
West

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WQGA788 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign	File Number
WQVN854	
Radio Service AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)	

FCC Registration Number (FRN): 0014980726

Grant Date	Effective Date	Expiration Date	Print Date
04-08-2015	08-29-2018	04-08-2027	

Market Number	Channel Block	Sub-Market Designator
BEA148	J	0

Market Name
Idaho Falls, ID-WY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
04-08-2021	04-08-2027		

Waivers/Conditions:
NONE

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.

FCC 601-MB
October 2017

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WQVN854 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

EXHIBIT B(1)
LEASE AGREEMENT BETWEEN WYDOT AND AT&T

LEASE AGREEMENT
FOR SMALL WIRELESS FACILITY
ON EXISTING POLE
BETWEEN
THE WYOMING DEPARTMENT OF TRANSPORTATION
AND
NEW CINGULAR WIRELESS PCS, LLC

(Sylvester Kimball-2 Node 4) / Lease #18-5-06

1. **Parties.** This Lease Agreement ("Agreement") is made between **THE WYOMING DEPARTMENT OF TRANSPORTATION (Lessor),** whose address is 5300 Bishop Boulevard, Cheyenne, Wyoming 82009-3340 and **NEW CINGULAR WIRELESS PCS, LLC (Lessee),** a company organized under the laws of the State of Delaware, whose address is 575 Morosgo Drive, Atlanta, GA 30324. In consideration of the mutual covenants contained herein, the parties agree as follows:

   a. Lessor's business address for the purpose of notification under the terms of this Agreement is:

   Wyoming Department of Transportation
   Right of Way Program
   5300 Bishop Blvd.
   Cheyenne, WY 82009-3340
   Attn: Ken De Jersey, Lease Manager
   (307) 777-4121

   b. Lessee's business address for the purpose of notification under the terms of this Agreement is:

   New Cingular Wireless PCS, LLC
   Attn: Network Real Estate Administration
   Re: WYDOT Small Cell (WY)
   Fixed Asset#: 14478334
   575 Morosgo Drive NE
   Atlanta, GA 30324

   With a copy to:

   New Cingular Wireless PCS, LLC
   Attn: Legal Dept – Network Operations
   Re: Cell Site Name: WYDOT Small Cell (WY)
   Fixed Asset#: 14478334
   208 S. Akard Street
   Dallas, TX 75202-4206

   c. In the event that the addresses listed above change, the party whose address has changed shall immediately notify the other party to this Agreement in writing.

2. **Purpose of Agreement.**

   a. Lessor is the sole owner of the certain property or a right of way located in T.41N., R.117W., Sec. 11, Teton County, Wyoming, as further described and depicted on the attached Exhibit "A" (the "Property"), and desires to lease a portion of the Property for use by Lessee in connection with Lessee's communications business.

b. Lessee desires to lease a portion of the Property for the purpose of conducting its communications business.

c. The parties desire to enter an agreement defining their rights, duties, and liabilities relating to Lessee's use of the Property.

d. For consideration, Lessor hereby leases to Lessee certain portions of the Property and certain structures or utility poles located thereon, if applicable, as locations for Lessee's wireless communications equipment (collectively, the "Premises"), which Premises is more accurately described on the attached Exhibit "A". Lessee's wireless communications equipment shall include but is not limited to, optical converters, remote radios, multiplexers, antennas, transmitters, receivers, equipment boxes, backup power supplies, power transfer switches, cut-off switches, electric meters, coaxial cables, wires, telecom demarcation box and related materials and equipment (collectively the "Node"), and fiber optic cables, repeaters, splice cases, and related materials and equipment (collectively the "Fiber"). Each Node and the Fiber together comprise a Small Cell Facility (the "Facility").

3. **Term of Lease.** Lessee leases the Premises for a term of ten (10) years commencing JUNE 29, 2018 (the "Commencement Date"), and terminating on JUNE 29, 2028, at 12:01 o'clock p.m. or sooner as provided herein. This Agreement is not valid and shall not become effective until it is signed by an authorized representative of the Lessee and an authorized representative of the Lessor, and has been approved as to form by the Office of the Wyoming Attorney General. The effective date of the Agreement shall be the date of the last required signature

Lessee shall perform no work or improvement on the Premises until such time as Lessor approves the Engineering calculations of the Facility. Calculations must be performed by a licensed Wyoming Engineer with a PE stamp affixed to documentation.

Lessee, upon payment as herein referenced shall peacefully and quietly have, hold and enjoy the Premises for the term hereof. After the initial ten (10) year term, this Agreement shall automatically renew for an additional period of five (5) years, up to five (5) consecutive times, unless either party provides written notice of its election not to renew, or its desire to renegotiate elements of this Agreement. In the absence of any of the aforementioned written notices, each renewal agreement shall otherwise reaffirm the same terms as this Agreement upon Lessor's receipt of advance payment for the renewal period. Either party reserves the right to decline to renew this Agreement through written notice of termination no later than 90 days prior to the end of the term or renewal term, or may terminate during the term subject to Clause 8.g. below.

4. **Rent Payment.** The annual rent to be paid by Lessee to Lessor for the placement of the Facility shall be **Five Hundred and 00/100 Dollars ($500.00) per year, adjusted annually by 3.0 %** to offset inflationary pressure. The first year's rent shall be prorated and paid within 30 days after full execution of this Agreement. Thereafter, rent shall be paid annually in advance, on or before January 1st during the term of this Agreement. If the annual rent is not paid within five (5) days after the date which it is due, a 10% late fee will be assessed. All rental payments shall be made to Lessor at the address specified above.

5. **Responsibilities of Lessor.**

a. **Provide Site.** Lessor shall provide the Premises for Lessee's construction and operation of the Facility, as generally described and depicted in Exhibit "A", which is attached to and incorporated into this Agreement by this reference.

b. **Provide access.** Existing access road(s) as used by Lessor shall also be used by Lessee to access the Premises. Lessee shall have access to the Premises on 24-hours-a-day, 7-days-a-week basis, as well as Lessee's employees, agents, contractors and other designees. Lessor grants Lessee access to existing easements associated with the Premises and its Facility.

c. **Quiet Enjoyment.** Lessor warrants that Lessee shall be granted peaceable and quiet enjoyment of the Premises and its Facility free from any eviction or interference by Lessor if Lessee pays the rent and otherwise fully and punctually performs the terms and conditions imposed on Lessee.

d. **Taxes.** Lessor shall pay all taxes, assessments, or other governmental charges that shall or may be imposed on, or arise in connection with the leased Premises, not to include the Lessee's Facility.

e. **Reasonable Cooperation.** With regard to this Agreement, Lessor authorizes Lessee to file and submit any necessary applications for zoning, land use permits, testing, licenses, or other due diligence activities, from any applicable governmental and/or quasi-governmental entity.

f. **Disclaimers.** While providing site and access, Lessor will not be responsible for any damages or loss of service incurred by Lessee. Lessor reserves the right to add new equipment as needed to the Facility. Lessor reserves the right to authorize additional lessees to use the Facility and install their authorized equipment, provided there will be no interference with the operations of Lessor or existing lessees.)

6. **Responsibilities of Lessee.**

a. **Access to Premises.** Lessee shall permit Lessor or its agents to enter the Premises at all reasonable hours to inspect remises or to maintain or make repairs to any utility poles or structures on which the Facility may be located, to show the Premises to prospective Lessees,all provided that Lessor does not tamper with or touch Lessee's equipment located on the Premises and that Lessee's use of the Premises is not unreasonably impaired. Lessee shall use the existing road(s) to access the leased Premises and Facility.

b. **Assignment, Mortgage, or Sublease.** Neither Lessee nor its successors or assigns shall, without Lessor's prior written consent, assign, mortgage, pledge, or encumber this Agreement or sublet the Premises in whole or in part, or permit the Premises or Facility to be used or occupied by others, nor shall this Agreement be assigned or transferred without Lessor's prior written consent. The consent by Lessor to an assignment, mortgage, pledge, or transfer shall not be construed to relieve Lessee from obtaining the express written consent of Lessor to any future transfer of interest.

c. **Surrender of Possession.** Lessee shall remove its Facility and all infrastructure it has placed within the Premises, if no utility has been attached, within one hundred twenty (120) days after termination or expiration of this Agreement. Upon the expiration of the removal period, Lessee shall peaceably and quietly surrender and deliver the leased Premises to Lessor, all in good condition and repair, reasonable wear and tear and casualty excepted.

d. **Utilities.** Lessee shall have the right to apply for additional utility services, install additional utility related equipment, including separate meters, to service its Facility. Additional applications and connections for necessary utility services on the Premises for the Facility shall be made in the name of Lessee only, and Lessee shall be solely liable for utility charges as they become due.

Lessee shall obtain separate utility licenses (M-54) for any utilities that are required at the Facility. These will be shown on the site map as proposed utility locations. Lessee shall obtain permission from Department's District Representative before accessing Facility for any reason in accordance with Utility Service/Repair Permit (M-21).

e. **Design and Placement of Facility.** Lessee shall be responsible for the engineering design of the proposed Facility. Engineering computations, plans, and a site Exhibit prepared and stamped by a professional engineer licensed in Wyoming shall be submitted to the Lessor for review. The Facility shall be placed as close to the right-of-way boundary as possible without overhanging adjacent privately owned property.

The Facility shall not unreasonably interfere with legal public uses of Lessor's roadway, including but not limited to roadway, shoulders, sidewalks, multi-use pathways, roadsides, drainage systems, storm water management facilities, and public utilities; nor will it interfere with protected uses within the right of way preserved by duly recorded easements and environmental covenants.

Lessee agrees not to attach advertising in any form to the Facility, and hereby understands and acknowledges that this Agreement does not authorize the use of any portion of the Facility for outdoor advertising purposes.

f. **Equipment and Maintenance.** Lessee shall evaluate the Lessor's current technology and radio frequency to ensure its equipment will not interfere with the operations of the Lessor or the operations of any existing lessees as of the effective date of this Agreement. The results of the report shall be submitted to the Lessor when this is complete.

After the effective date of this Agreement, Lessor shall not permit any third party to install, any equipment or structures that interfere with or restrict the operations of Lessee. Any such interference shall be deemed a material breach of this Agreement by Lessor and Lessor shall remove the cause of the interference within forty-eight (48) hours of notice. Lessee shall have the right to exercise all legal and equitable rights and remedies to end the interference.

Lessee agrees to place and permanently maintain in place, a sign showing the current owner(s) of the Support Structure, the current owner(s) of the Facility attached at this location, and twenty-four (24) hour emergency contact information for all parties; with the sign being mounted parallel to the direction of traffic, legible from a location on the ground at the edge of the paved roadway or shoulder surface.

Lessee shall have maintenance personnel on the Premises within two (2) hours when requested by the Lessor as a result of any problems with the Lessee's Facility or equipment, including if any portion of the Facility falls onto a nearby roadway and is impeding traffic. If Lessee fails to address any such maintenance problem within the time set forth herein, Lessor may do so, including moving those portions of the Facility that are obstructing traffic to restore safe traffic flow, and invoice Lessee for the actual documented cost of such work. Lessor may remove Lessee's facilities immediately if it is impeding traffic. Lessee shall be responsible for any costs incurred by the Department for this removal.

Should the Lessor determine that the Facility causes issues with maintenance of Lessor owned equipment or facilities, or maintenance and construction of other facilities and improvements deemed to be in the public interest by the Lessor, the Lessee shall de-energize, de-activate, or otherwise turn off the Node within two

(2) hours of being notified, until necessary work is complete and positive notice of completion is provided to the Lessee.

Lessee will be required to inspect its Facility no less than once per year to ensure that its Facility is in good operating order and condition and provide the results of such inspection to the Lessor.

g. **Security.** Lessee shall be responsible for the security of its Facility. Lessor shall not be responsible for any damage or vandalism to the Facility, which Lessee shall be responsible for repairing at its sole expense.

h. **Ownership.** Lessee shall own all the hardware and software it installs, and shall remove it consistent with the terms of this Agreement.

i. **Existing Lessor Facilities.** Lessee shall notify Lessor in advance prior to excavating on Lessor property so that a Lessor representative can come to the site and mark Lessor's facilities. Lessee shall be aware that Lessor may not know where all its facilities are located. Lessee shall be responsible for any damage to Lessor's facilities even if they are not marked.

Lessee shall be responsible for its Facility, and shall be responsible for any damage that occurs to Lessor's facilities or equipment caused by or resulting from Lessee's Facility. Any Lessor facilities or equipment damaged by Lessee during the term of this Agreement shall be repaired by Lessee at Lessee cost. Lessee shall be responsible for any loss of service costs associated with this damage.

Lessee shall be responsible for all of its equipment, and any damage caused thereto. If Lessor's tower or equipment should fail, resulting in damages to Lessee's Facilities, Lessor shall not be responsible for any damages caused to Lessee.

j. **As-Built Plans.** Lessee shall provide Lessor with "As-Constructed" site plans at the completion of this project. These plans shall meet the requirements for exhibits as shown in the Lessor's Utility Accommdation Regulation.

k. **Vandalism.** Lessor will not be responsible for any vandalism that might occur to Lessee's equipment. Lessee will be responsible for repairing all equipment at their sole expense.

7. **Special Provisions.**

a. **Alterations, Additions, and Improvements.**

i. Lessee shall not at any time during the term of this Agreement, make alterations, additions, or improvements in and to the Premises, except with prior written consent of the Lessor, which shall not be unreasonably withheld, conditioned or delayed. No structural or substantial portion of the Premises shall be demolished or removed by Lessee without the prior written consent of Lessor. Alterations shall be performed in a workmanlike manner and shall not weaken or impair the structural strength, or lessen the value, of the Premises.

ii. All alterations, additions, and improvements on or in the Premises at the commencement of the term of this Agreement, and that may be erected or installed during the term, shall become part of the Premises and the sole property of Lessee, unless otherwise agreed to in writing by Lessor and Lessee.

b. Condition of Premises; Summary of Damage & Repair.

i. Lessee. Lessee shall, at its sole cost and expense, maintain and repair its Facility in good and safe condition and in accordance with applicable law, statutes, ordinances, rules, and regulations.

ii. Lessor. Lessor shall, at its own expense, maintain and repair the Property and keep all portions of the Property, including all improvements or structures that Lessor has placed thereon or owns, in safe and serviceable condition and in accordance with applicable law, statutes, ordinances, rules, and regulations.

c. **Easements, Contracts, or Encumbrances.** The parties shall be bound by all existing easements, contracts, and encumbrances of record relating to the Property, and all existing utilities on the Property.

d. **Insurance.**

i. Lessor. During the term of the Agreement and for any further time that Lessee shall hold the Premises, the Lessor shall provide coverage through its commercial insurance program for all buildings, improvements, and equipment on the Property, including all alterations, additions, or improvements. To the extent allowable under the Governmental Claims Act, the Lessor shall be self-insured for liability through the State Self-Insurance Program (SSIP).

ii. Lessee. During the term of the Agreement and for any further time that Lessee shall hold the Premises, Lessee shall obtain and maintain at its own expense insurance on its Facility. Additionally, the Lessee shall provide proof of the following insurance coverages:

(1) Commercial General Liability Insurance. The Lessee shall provide coverage per form ISO CGL 00 01 or equivalent against claims arising out of bodily injury and death, and from damage to or destruction of property of others, including loss of use thereof, and including products and completed operations, with limits of One Million Dollars ($1,000,000.00) per occurrence and in the aggregate.

(2) The State of Wyoming shall be included as an additional insured on the Lessee's commercial general liability policy for the term of this Agreement.

(3) It is understood and agreed that the Lessee's policies are primary and not contributory. Lessee may self-insure any of the coverage required hereunder. All insurance certificates shall be submitted to the Lessor before the effective date of this Agreement. Lessee shall provide thirty (30) days notice to Lessor of the cancellation or non-renewal of any required coverage that is not replaced.

(4) The Lessee will report any damage to the Property to the Lessor. The Lessee will also advise the Lessor of any potential or pending liability claim filed against it arising solely from the use of the Premises.

e. **Successors and Assigns.** This Agreement and the terms and conditions hereof apply to and are binding on the purchasers, heirs, legal representatives, successors, assignees, agents and employees of both parties.

f. **Time is of the Essence.** Time is of the essence in all provisions of this Agreement.

g. **Unlawful or Dangerous Activity.** Lessee shall neither use nor occupy the Premises or any part thereof for any unlawful, disreputable, or ultra-hazardous business purpose nor operate or conduct business in a manner constituting a nuisance of any kind. Lessee shall immediately, upon notification of any unlawful, disreputable, or ultra-hazardous use, or nuisance, take action to halt such activity.

8. **General Provisions.**

a. **Americans With Disabilities Act and Nondiscrimination.** The Lessee shall comply with the Americans With Disabilities Act (ADA), 42 U.S.C. 12101, *et seq.* The Lessee shall assure that no person is discriminated against based on the grounds of age, sex, color, race, religion, national origin or disability in connection with this Agreement.

b. **Applicable Law/Venue.** The construction, interpretation and enforcement of this Agreement shall be governed by the laws of the State of Wyoming. The Courts of the State of Wyoming shall have jurisdiction over this Agreement and the parties, and the venue shall be in the district and county in which the Premises is located.

c. **Entirety of Agreement.** This Agreement, **consisting of eleven (11) pages, and Exhibit "A," consisting of two (2) pages,** represent the entire and integrated Agreement between the parties and supersedes all prior negotiations, representations, leases, or other contracts between them, either written or oral. This Agreement cannot be changed except by a written instrument subsequently executed by the parties.

d. **Indemnity.** Lessee shall release, indemnify, and hold harmless the State, and its Agency, and their officers, agents, and employees from any and all claims, suits, liabilities, court awards, damages, costs, attorneys' fees, and expenses arising out of Lessee's failure to perform any of Lessee's duties and obligations hereunder or in connection with Lessee's negligence or willful misconduct.

e. **Notice.** All notices to be given with respect to this Agreement shall be in writing. Each notice shall be sent by registered or certified mail, postage prepaid and return receipt requested, or in person, or by a nationally recognized courier service, to the party to be notified, at the address set forth above. Every notice, if mailed, shall be deemed to have been given at the time it shall be deposited in the United States mail, or upon delivery in person, or by courier, in the manner prescribed herein. Nothing contained herein shall be construed to preclude personal service of any notice.

f. **Sovereign Immunity and Limitations.** Pursuant to Wyo. Stat. § 1-39-104(a), and all other applicable law, the State of Wyoming and Lessor expressly reserve sovereign immunity by entering into this Agreement and specifically retain all immunities and defenses available to them as sovereigns. The parties acknowledge that the State of Wyoming has sovereign immunity and only the Wyoming Legislature has the power to waive sovereign immunity. Designations of venue, choice of law, enforcement actions, and similar provisions shall not be construed as a waiver of sovereign immunity. The parties agree that any ambiguity in this Agreement shall not be strictly construed, either against or for

either party, except that any ambiguity as to sovereign immunity shall be construed in favor of sovereign immunity.

g. **Termination.**

i. This Agreement may be terminated immediately for cause by Lessor if Lessee fails to perform in accordance with the terms of this Agreement.
ii. Lessee may terminate this Agreement upon ninety (90) days prior written notice.
iii. Either party may terminate this Agreement by electing to not renew the Agreement for an additional 5 years in a manner consistent with Section 4 above.

h. **Third Party Beneficiary Rights.** The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Agreement shall not be construed to create such status. The rights, duties and obligations contained in this Agreement shall operate only between the parties to this Agreement, and shall inure solely to the benefit of the parties to this Agreement. The provisions of this Agreement are intended only to assist the parties in determining and performing their obligations under this Agreement. The parties to this Agreement intend and expressly agree that only the parties to this Agreement or their respective successors and assigns shall have any legal or equitable right to seek to enforce this Agreement, to seek any remedy arising out of a party's performance or failure to perform any term or condition of this Agreement, or to bring an action for the breach of this Agreement.

i. **Waivers.** The failure of Lessor to insist on a strict performance of any of the terms and conditions hereof shall not be deemed a waiver of the rights or remedies that Lessor may have regarding that specific term or condition.

j. **Amendments.** Any changes, modifications, revisions or amendments to this Agreement which are mutually agreed upon by the parties to this Agreement shall be incorporated by written instrument, executed and signed by all parties to this Agreement.

k. **Agreement not used as Collateral.** Lessee shall not use this Agreement, or any portion thereof, for collateral for any financial obligation, without the prior written permission of Lessor.

l. **Award of Related Agreements.** Lessor may undertake or award supplemental or successor Agreements for work related to this Agreement. Lessee shall cooperate fully with other tenants and Lessor in all such cases.

m. **Certificate of Good Standing.** Lessor shall provide Certificate of Good Standing verifying compliance with the unemployment insurance and workers' compensation programs prior to performing work under this Agreement.

n. **Compliance with Laws.** Lessee shall keep informed of and comply with all applicable federal, state and local laws and regulations in the performance of this Agreement.

o. **Ethics.** To the extent applicable to Lessee's business, if at all, Lessee shall keep informed of and comply with the Wyoming Ethics and Disclosure Act (Wyo. Stat. § 9-13-101, *et seq.),* and all ethical standards governing Lessee's business.

p. **Force Majeure.** Neither party shall be liable for failure to perform under this Agreement if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Such causes may

include, but are not limited to, acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. This provision shall become effective only if the party failing to perform notifies the other party as soon as possible under the circumstances of the extent and nature of the problem, limits delay in performance to that required by the event, and takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming party.

q. **Independent Contractor.** Lessee shall function as an independent contractor for the purposes of this Agreement, and shall not be considered an employee of the State of Wyoming for any purpose. Lessee shall assume sole responsibility for any debts or liabilities that may be incurred by Lessee in fulfilling the terms of this Agreement, and shall be solely responsible for the payment of all federal, state and local taxes which may accrue because of this Agreement. Nothing in this Agreement shall be interpreted as authorizing Lessee or its agents or employees to act as an agent, or representative for or on behalf of the State of Wyoming or Lessor, or to incur any obligation of any kind on behalf of the State of Wyoming or Lessor. Lessee agrees that no health or hospitalization benefits, workers' compensation or similar benefits available to State of Wyoming employees will inure to the benefit of Lessee or Lessee's agents and/or employees because of this Agreement.

r. **Monitor Activities.** Lessor shall have the right to monitor all Agreement related activities of Lessee and all subcontractors. This shall include, but not be limited to, the right to, consistent with the terms herein make site inspections at any time, to bring experts and consultants on site to examine or evaluate completed work or work in progress, and to observe all Lessee personnel in every phase of performance of Agreement related work.

s. **No Finder's Fees.** No finder's fee, employment agency fee, or other such fee related to the procurement of this Agreement shall be paid by either party.

t. **Notice and Approval of Proposed Sale or Transfer of Lessee.** Lessee shall provide Lessor with the earliest possible notice of any proposed sale or transfer or any proposed merger or consolidation of the assets of Lessee. Such notice shall be provided in accordance with the notice provision of this Agreement. If Lessor determines that the proposed merger, consolidation, sale or transfer of assets is not consistent with the continued satisfactory performance of Lessee's obligations under this Agreement, then Lessor may, at its option, terminate or renegotiate the Agreement.

u. **Patent or Copyright Protection.** Lessee recognizes that certain proprietary matters or techniques may be subject to patent, trademark, copyright, license or other similar restrictions, and warrants that no work performed by Lessee or its subcontractors will violate any such restriction. Lessee shall defend and indemnify Lessor for any violation or alleged violation of such patent, trademark, copyright, license, or other restrictions.

v. **Prior Approval.** This Agreement shall not be binding upon either party, no services shall be performed under the terms of this Agreement, and the Wyoming State Auditor shall not draw warrants for payment on this Agreement, until this Agreement has been reduced to writing, and approved as to form by the Office of the Attorney General.

w. **Publicity.** Any publicity given to the program or services provided herein, including, but not limited to, notices, information, pamphlets, press releases, research, reports, signs, and similar public notices prepared by or for Lessee, shall

identify Lessor as the sponsor and shall not be released without prior written approval from Lessor.

x. **Severability.** Should any portion of this Agreement be judicially determined to be illegal or unenforceable, the remainder of the Agreement shall continue in full force and effect, and either party may renegotiate the terms affected by the severance.

y. **Lessee Taxes.** Lessee shall pay all taxes and other such amounts it owes as required by federal, state and local law, including but not limited to federal and social security taxes, workers' compensation, unemployment insurance and sales taxes.

z. **Titles Not Controlling.** Titles of paragraphs are for reference only, and shall not be used to construe the language in this Agreement. The effective date of this Agreement is the date of the signature last affixed to this page.

THE REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK

IN WITNESS WHEREOF, the parties to this Agreement through their duly authorized representative(s) have executed this Agreement on the dates set out below, and certify that they have read, understand, and agree to the terms and conditions of this Agreement.

The effective date of this Agreement is the date of the signature last affixed to this page.

LESSOR:
WYOMING DEPARTMENT OF TRANSPORTATION

Ken De Jersey, Lease Manager — 6-29-18 Date

LESSEE:
NEW CINGULAR WIRELESS PCS, LLC
By: AT&T Mobility, ITS Manager

6/29/18
Date

ATTORNEY GENERAL OFFICE APPROVAL AS TO FORM

Alysia Goldman — 6/21/18 Date
Assistant Attorney General
Representing the Wyoming Department of Transportation

EXHIBIT C 2.1(n)
Noise Limits

HORROCKS
ENGINEERS

SMARTLINK
SOUND LEVEL ANALYSIS

PREPARED FOR:
Smartlink

PREPARED BY:
Horrocks Engineers

February 2021

SOUND LEVEL ANALYSIS

1.0 INTRODUCTION

This Sound Level Analysis was prepared for Smartlink and was carried out in Draper Utah (see Figure 1). This analysis was conducted to evaluate existing noise levels at an active cellular pole site, which is adjacent to 12200 West and Loan Peak Parkway in Draper. The results of this analysis indicate that there is no audible difference in noise levels at a distance of three (3) feet from the cellular pole and the ambient noise levels twenty (20) feet from the cellular pole. The difference is approximately one (1) dBA, which is imperceptible to the average human ear.

2.0 ANALYSIS OF NOISE LEVELS

Noise levels for this analysis were measured in A-weighted sound levels in decibels (dBA) which most closely approximates the way the human ear hears sounds at different frequencies (see Figure 2). Community noise is commonly described in terms of the "ambient" noise level, which is defined as the all-encompassing noise level associated with a given noise environment. A common statistical tool to measure the ambient noise level is the average, or equivalent, sound level (L_{eq}) over a given time period. On-site measurements to evaluate existing noise levels were taken with sound meters that meet ANSI Type 2 standards and have been calibrated within the last year. Measurements were conducted for 15-minute periods at distances of three (3) feet and 20 feet from the cellular pole. Two sound meters were used concurrently for each 15-minute period in both the east and west directions.

Noise readings taken near the cellular pole were processed to determine the L_{eq} for the measurement locations

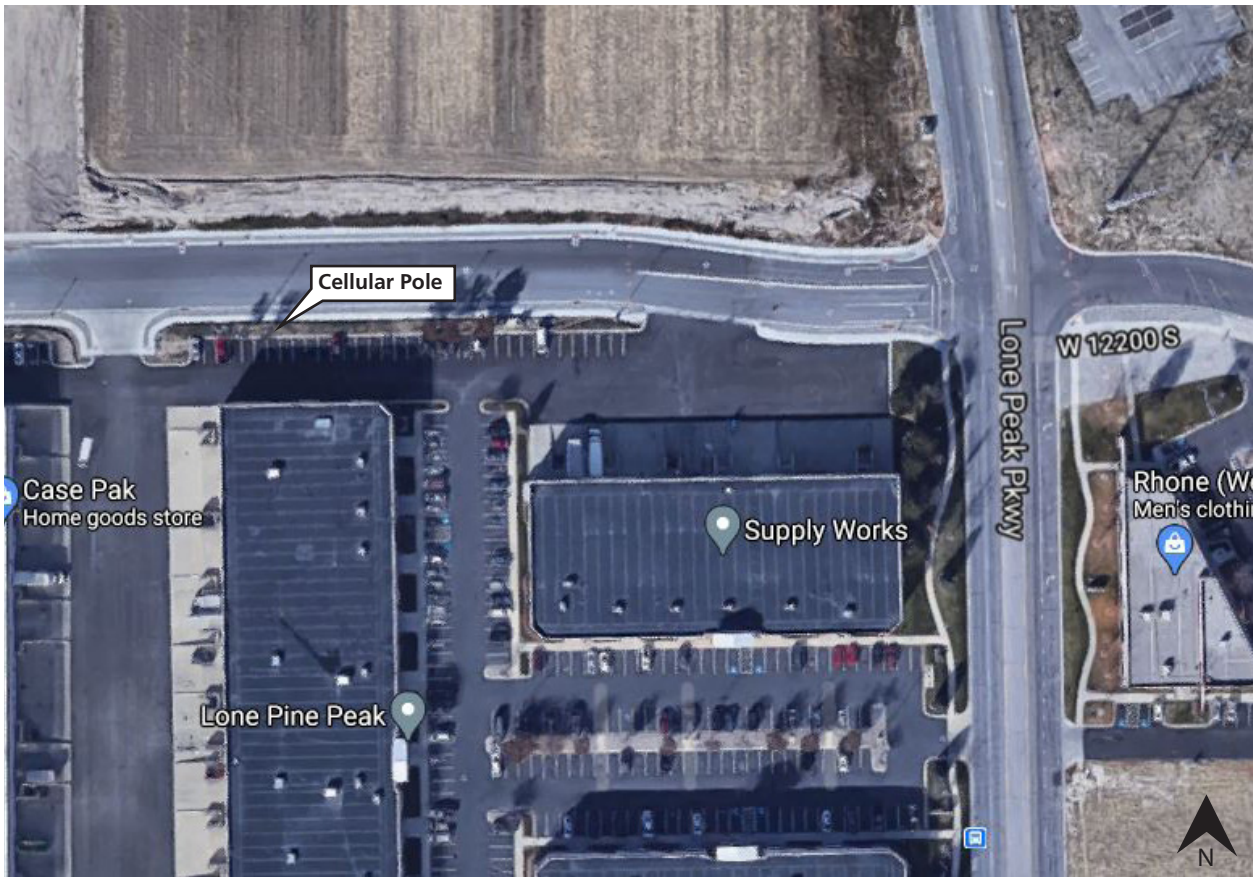


Figure 1. Cellular Pole Location

for each of the 15-minute periods. The weekend was selected for noise measurements as the industrial businesses in the area were closed and traffic would be at a minimum near the cellular pole.

Measurement Location 1

Measurement Location 1 was located three (3) feet from the cellular pole. Noise levels were recorded between 2:10 pm and 2:25 pm on January 31, 2021. The L_{eq} for the 15-minute recording period was **50.7 dBA** three feet (3) east of the pole and **51.1 dBA** three feet (3) west of the pole. Ambient noise sources were traffic on nearby roadways and HVAC systems in the industrial park. The fan noise from the cellular pole was not audible over the ambient noise at this distance. Changes in noise levels throughout the period are shown in Chart A1 and A2 in Appendix A.

Measurement Location 2

Measurement Location 2 was located 20 feet from the cellular pole. Noise levels were recorded between 2:30 pm and 2:45 pm on January 31, 2021. The L_{eq} for the 15-minute recording period was **48.8 dBA** twenty (20) feet east of the pole and **50.1 dBA** twenty (20) feet west of the pole. Ambient noise sources were traffic on nearby roadways and HVAC systems in the industrial park. The fan noise from the cellular pole was not audible over the ambient noise at this distance. Changes in noise levels throughout the period are shown in Charts A3 and A4 in Appendix A.

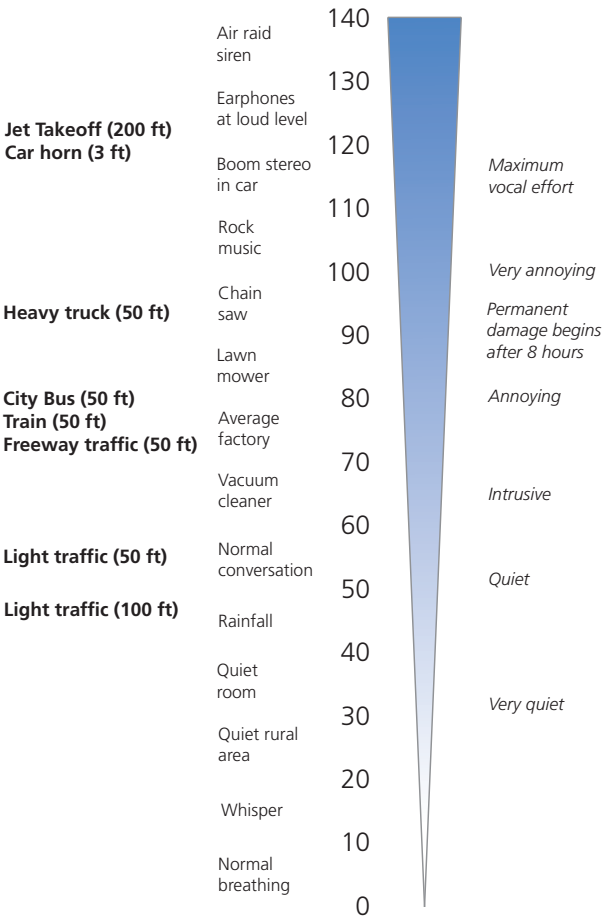


Figure 2. Sound Levels (in dBA) of Common Sounds (Compiled from Federal Transit Administration and Environmental Protection Agency Data)

As shown in Figure 2 above, noise at these levels is quiet.

An evaluation of noise levels at the cellular pole site near 12200 South and Lone Peak Parkway showed that the L_{EQ} at Measurement Location 1 for the 15-minute period was **50.7 dBA** three (3) feet east of the pole and **51.1 dBA** three (3) feet west of the pole. At Measurement Location 2 the L_{EQ} for the 15-minute period was **48.8 dBA** twenty (20) feet east of the pole and **50.1 dBA** twenty (20) feet west of the pole. The fan noise from the cellular pole was not audible over the ambient noise at these distances.

The results of this analysis indicate that there is no audible difference in noise levels at a distance of three (3) feet from the cellular pole and the ambient noise levels twenty (20) feet from the cellular pole. The difference is approximately one (1) dBA, which is imperceptible to the average human ear.

APPENDIX A: MEASUREMENT CHARTS

CHART A1
MEASUREMENT LOCATION 1—3 FEET EAST OF CELLULAR POLE
2:10 PM – 2:25 PM

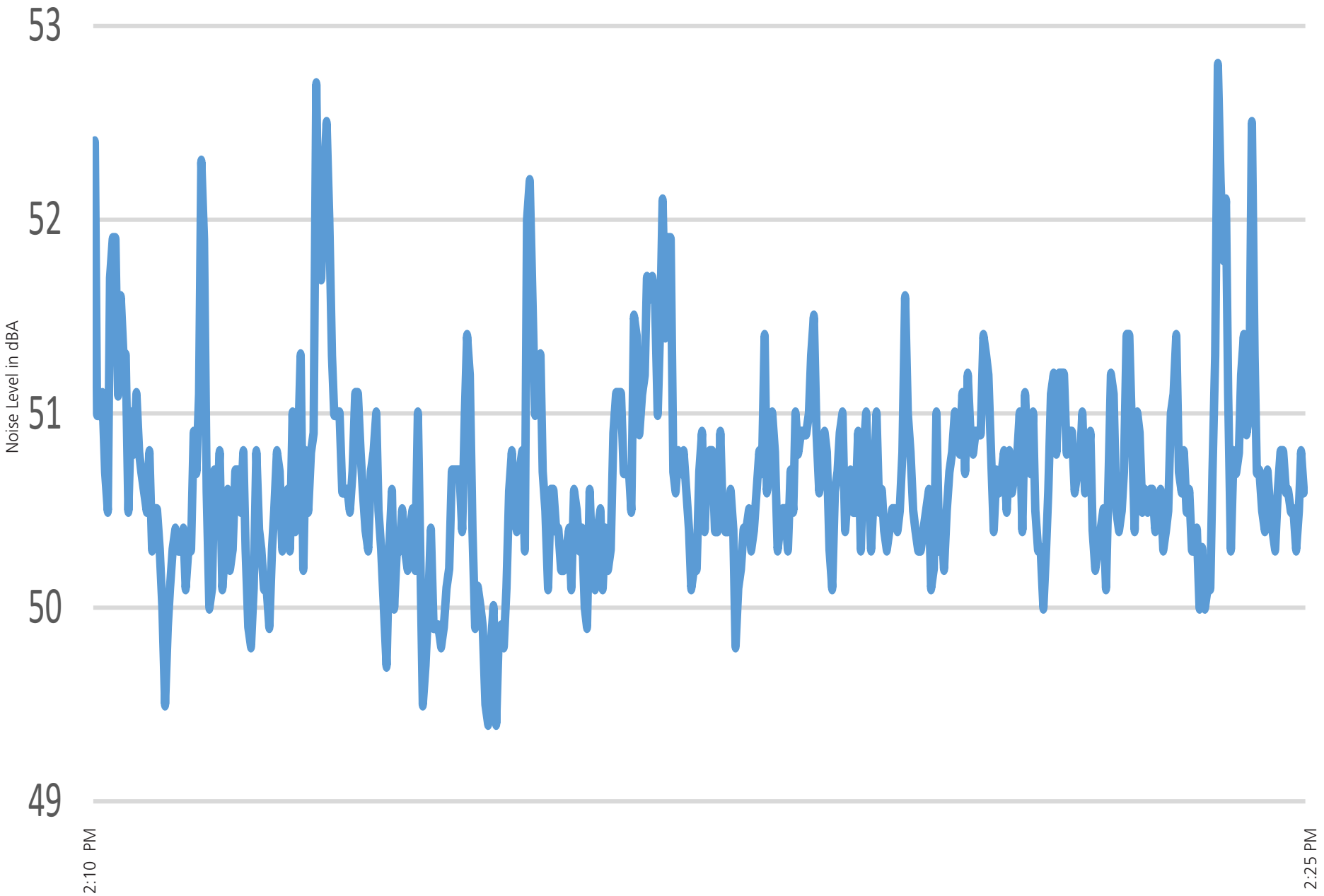


CHART A2
MEASUREMENT LOCATION 1—3 FEET WEST OF CELLULAR POLE
2:10 PM – 2:25 PM

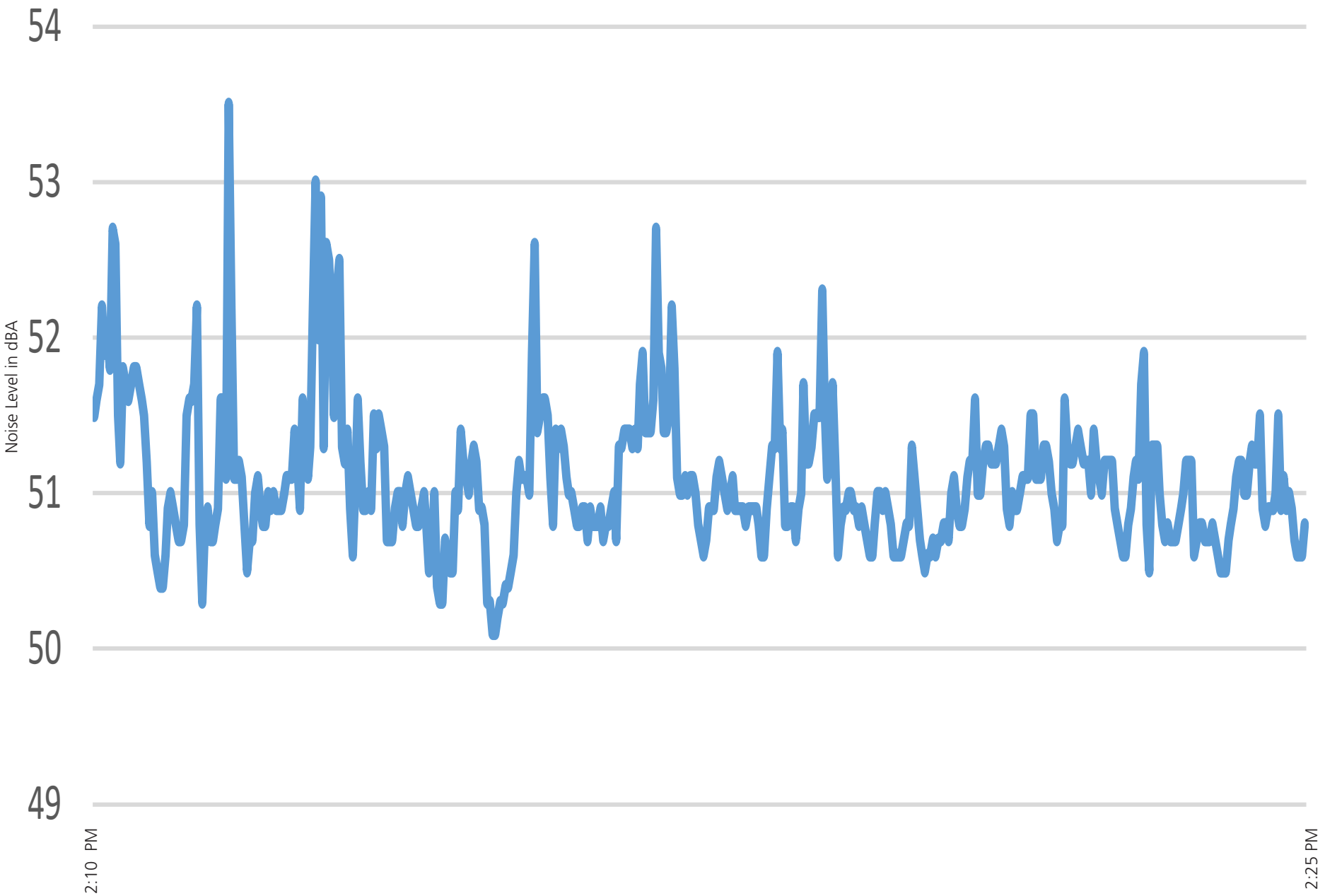


CHART A3
MEASUREMENT LOCATION 2—20 FEET EAST OF CELLULAR POLE
2:30 PM – 2:45 PM

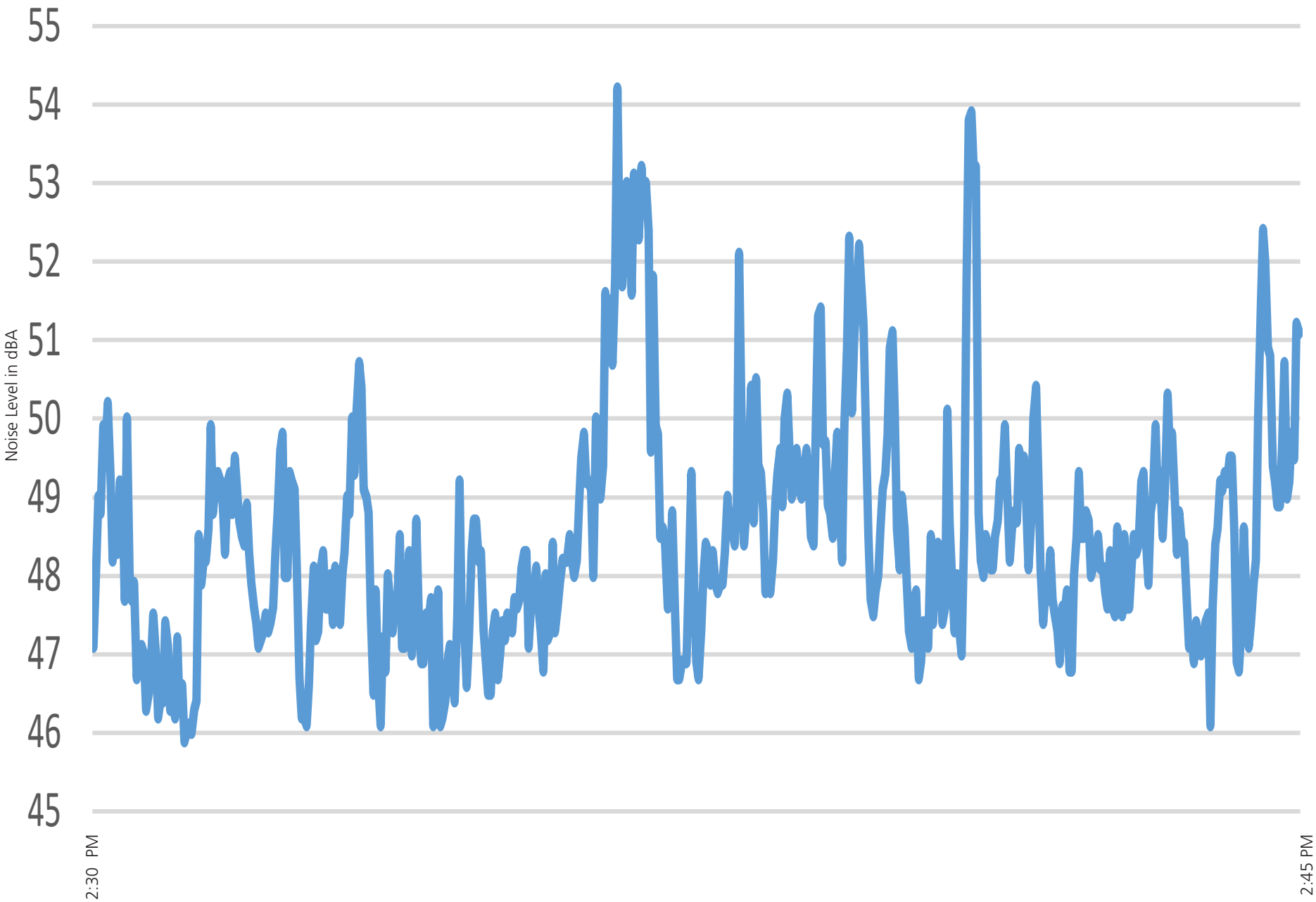
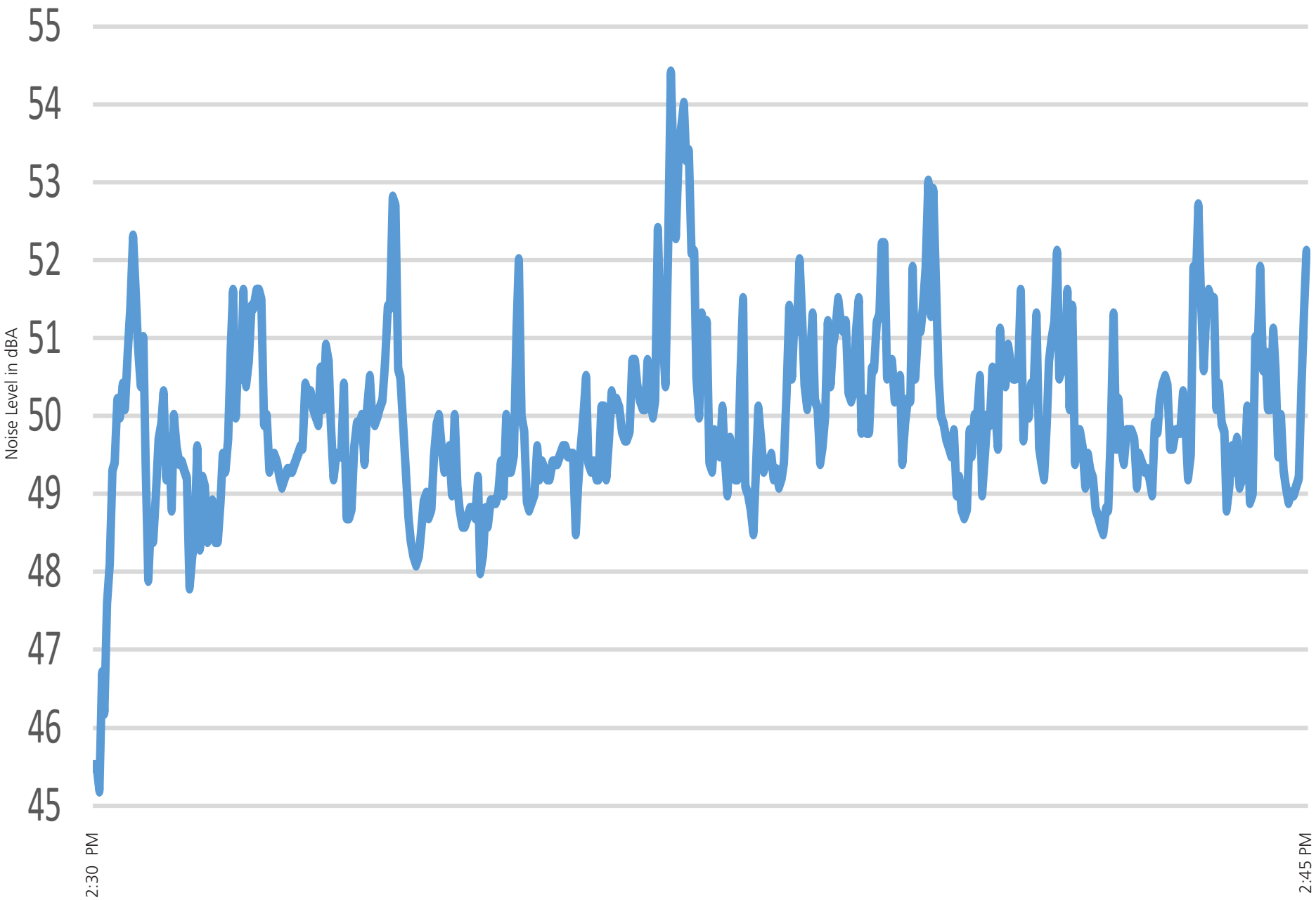


CHART A4
MEASUREMENT LOCATION 2—20 FEET WEST OF CELLULAR POLE
2:30 PM – 2:45 PM



PUBLIC WORKS DEPARTMENT

Engineering Division

450 West Snow King Ave.
P.O. Box 1687
Jackson, WY 83001

phone: (307) 733-3079
townengineering@jacksonwy.gov
www.jacksonwy.gov

Mr. Paul Topham
paul.topham@smartlinkgroup.com
via email in PDF with request for a Read Receipt

March 26, 2021

Mr. Taylor Sanford
taylor.sanford@smrtlinkgroup.com
9927 S Tee Box Drive,
South Jordan, UT
84009 801-874-4513
via email in PDF with request for a Read Receipt

Re: Decibel Requirement Deficiency

New Poles Batch Application
B20-0354 - IDL07033F_R02 – 300 Flat Creek Drive (CRAN_JCKSN 008)
B20-0355 - IDL07033F_R03 – 125 Virginian Lane (CRAN_JCKSN 012)

Dear Mr. Topham and Mr. Sanford:

The deficiency with the New Poles Batch Application fourth submittal as stated in our deficiency letter dated 02/19/2021 is as follows:

TYPE 3 – NEW FREESTANDING INSTALLATIONS

1. VENTILATION:
    1. Internal fan submittal does not comply with the Design Standards per Exhibit A, Number 20. Fan(s) shall not emit noise greater than 30 dB at one meter (3.28 feet). Your resubmittal included a noise analysis that shows the proposed plan is not compliant with this standard. The intent of the Design Standard is to require passive cooling and to avoid noise altogether. Explain why you need a fan and what fan(s) you require. Revise submittal with a compliant fan or provide justification and reasoning for the louder fan. Include any thermodynamics, anticipated run times, physical limitations, items beyond your control, etc. in your resubmittal.

On March 12, 2021 the Town along with Smart Link held a Teams meeting to discuss the above referenced deficiency. Smart Link explained the sound level analysis submitted with your fourth (4th) submittal. In the analysis, decibels were measured at twenty feet and at 3 feet from a similar existing cell small cell site with no distinguishable decibel difference between the two distances. Noise levels at those distances were approximately 50 dB when attempting to measure the fan decibels. The conclusion was the ambient noise in the area was being measured along with the fan.

There was discussion on a different model fan that could meet the 30 dB requirement but was determined to be inadequate in terms of fan rpms and airflow requirements to keep equipment from overheating. We discussed what would be an acceptable decibel level.

Following said Teams meeting, Town staff reviewed the application with consideration of the discussion. At this time, the Town is not willing to remove the decibel level requirement for the fan but acknowledges that the standard decibel rating for the fan alone may not accurately represent the noise levels of the complete installation. Further, based on the sound level analysis provided in your submittal it can be expected that the completed facility will not create noise at levels higher than the ambient street noise.

Based on the applicant's representation that the proposed facilities are similar to the facility in their sound analysis that concluded the completed facilities will not generate noise levels higher than the ambient street noise, the Town of Jackson conditions the Design Standards per Exhibit A, Number 20. Fan(s) shall not emit noise greater than 30 dB at one meter (3.28 feet) as follows to meet the intent of our regulation:

1. The completed facilities shall not generate noise levels higher than the surrounding ambient street noises, i.e. sounds from the facility will not be discernable over ambient noise at one meter. Noise analysis with the facility on and off may be used to determine if the facility is louder than ambient noise.
2. If at any time after activation of the facilities there is any noise issue(s), Smart Link will be required to address and rectify the issue within thirty days of receipt of written notice from the Town.
3. If after the initial noise issue has been rectified and there is any subsequent noise issue(s), the small cell pole will be considered out of compliance with the intent of the regulations. The Town will provide written notice that the facility be shut off within 48 hours of receipt of notice and Smart Link will be required to address and rectify the issue prior to restarting the facility.

This letter serves as notice that the small cell pole applications B20-0354 and B20-0355 with noise level conditions as stated above are compliant with the intent of our design regulations and approval with conditions for the permits will be forthcoming.

Respectfully submitted,

Scott A. Mohror

Scott A Mohror, PE
Town of Jackson
Senior Engineer

EXHIBIT C.2(O)(1) COMPLIANCE WITH TOWN OF JACKSON WIRELESS TELECOMMUNICATIONS STANDARDS AND MUNICIPAL CODE)

Statement of Compliance with Town of Jackson Title 12 Encroachment Permits and the Small Cell Infrastructure Design Guidelines

Below is our statement of compliance regarding Title 12.04 and Title 12.08 of the Jackson Municipal Code the Town of Jackson Small Cell Infrastructure Design Guidelines.

Compliance with Title 12 Provisions

12.04.010 Standards

A. The standards utilized within the town of Jackson with respect to the construction of street improvements shall be those contained within the latest edition of the Wyoming Public Works Standard Specifications, as said specifications are periodically updated, and those standards specifically adopted by the Town to augment the Wyoming Public Works Standard Specifications. Should a conflict arise between the Wyoming Public Works Standard Specifications and those standards specifically adopted by the town, the town's standards shall take precedence.

Applicant Response to 12.04.010.A: Applicant agrees to comply with the standards referenced in this section.

B. The standards for Right-of-Way Telecommunications Wireless Facilities, as defined herein, in the Town of Jackson Right of Way are governed by, in addition to the standards in Section A, the Town of Jackson Wireless Telecommunication Facility Design Standards, as defined herein.

Applicant Response to 12.04.010.B: Applicant agrees to comply with the standards referenced in this section.

12.08.025 Effect of an Encroachment Permit.

A. Not in Lieu of Other Required Permits or Authorizations. Any Encroachment Permit to work in the Public Right of Way ("ROW") issued under this Chapter authorizes construction at a location as proposed and as approved in the permit, with the permission of the Town. It is not in lieu of building permits, electrical permits, franchise agreements, licensing agreements, or any other permits or authorizations that may be required as a condition of construction or operation of the permanent facility or utility, and it does not excuse compliance with any other law, regulation, practice or other requirement under federal, state or local law.

Applicant Response to 12.08.025.A: Applicant understands that if Encroachment Permit is issued, other permits or authorizations may be required as well as compliance with other regulations, practices and federal state and local laws.

B. Franchise, consent and/or license agreements required for access to public ROW: Prior to installing in the public ROW any telecommunications facility, or any pole built for the sole or primary purpose of supporting a communications facility, or any tower, a person shall enter into, including, but not only, a franchise agreement, a consent agreement and/or a license agreement with the Town expressly authorizing use of the public ROW for the telecommunications facility, pole or tower proposed to be installed.

Applicant Response to 12.08.025.B: Applicant is currently seeking a Franchise and Master License Agreement and understands that this additional authorization is required to install a wireless communications facility in the public ROW.

12.08.030 Agreement-Required

It is unlawful for any person to construct or maintain private building or building foundation improvements, including building projections and canopies and building-mounted signs, within the streets of

the town without first having executed with the town an encroachment agreement setting forth the terms and conditions under which such improvements may remain in place.

Applicant Response to 12.08.030: Applicant is not seeking authorization to install a private building, building foundation, projection or canopy in the public ROW.

12.08.040 Encroachment Permit - Required
A. An Encroachment Permit is required:

1. to construct public infrastructure improvements such as, but not limited to, sidewalk, boardwalk, curbs, gutters, telecommunication facilities, utilities and/or street paving within any street;

2. to dig up, break, excavate, tunnel, undermine, or in any manner break up any street;

3. to make or cause to be made any excavation in or under the surface of any street for any purpose;

4. to place, deposit, or leave upon any street any earth or other excavated material, construction supplies, equipment, dumpsters or materials obstructing or tending to interfere with the free use of the street;

5. to move an existing house, building, or structure on or over any street;

6. to occupy any street, sidewalk or any time-restricted parking space for the purposes of construction, excavation, tunneling, or storage of materials.

Applicant Response to 12.08.040.A: The Applicant acknowledges the above provision and is seeking an Encroachment permit to install a Small Wireless Communication Facility in the public ROW.

B. No encroachment permit to occupy any street travel lane or time-restricted parking space for the purposes of construction, excavation, tunneling, or storage of materials or for activities which would facilitate such shall be issued for the time period between and including June 15th and September 25 of each calendar year for properties which are entirely within the area described in the below map of area and described as follows: beginning at the intersection of North Jackson and West Gill southward along Jackson to Simpson Street the eastward along Hansen to Willow then northward along Willow to E Gill then westward along Gill to North Cache then northward along Cache to Mercill Avenue then eastward along Mercill to North Millward then south along Millward to west Gill the westward along Gill to the point of beginning, except for reasons which the Public Works Director deems are: 1) unavoidable on the part of the applicant; 2) for the purposes of routine maintenance, or 3) acceptable pursuant to an approved Construction Plan and/or Staging Plan as set forth in section 12.08.045 below.

Applicant Response to 12.08.040.B: The Applicant acknowledges the above provision and will abide by the construction restrictions to the extent not preempted by federal law.

C. No encroachment permit shall be issued without an approved construction plan and/or staging plan from the Town Planning Director and Town Engineer as required and set forth in this chapter.
(Ord. 947 § 1, 2009; Ord. 571 § 1, 1996.)

Applicant Response to 12.08.040.C: The Applicant will submit an approved construction plan and staging plan in accordance with this requirement.

12.08.045 Encroachment Permit - Construction Plan and/or Staging Plan

A. An applicant for an encroachment permit shall be required to obtain approval of a construction plan and/or staging plan for the public infrastructure improvements from the Town Planning Director and Town Engineer. Based on the magnitude of the development, the Town Planning Director and Town Engineer may require that the applicant conduct a meeting with property owners in the affected area to review and provide input on the proposed construction and/or staging plan. To minimize the impact to the general public, the Town Planning Director and Town Engineer will have the authority to require modifications to the construction and/or staging plan. The Town Planning Director and Town Engineer may allow construction related activity to work within the right-of-way during the restricted time period referenced in section 12.08.040 above if deemed appropriate in their discretion.

Applicant Response to 12.08.045.A: The Applicant acknowledges the above provision and is seeking an Encroachment permit to install a Small Wireless Communication Facility in the public ROW.

B. Should the applicant, Town Planning Director and Town Engineer not agree on an appropriate construction and/or staging plan, the applicant will have the option to request a review by the Town Council.

Applicant Response to 12.08.045.B: The Applicant acknowledges the above provision and understands that in the event there is disagreement regarding a construction and/or staging plan, the applicant may request Town Council review.

12.08.050 Permit-Application-Contents
No encroachment permit shall be issued unless a written application for the issuance of an encroachment permit is submitted to the town. The written application shall state the name and address of the applicant, the nature, location and purpose of the encroachment, the date of commencement and date of completion of the encroachment, and other data as may reasonably be required by the town. The application shall be accompanied by plans showing the extent of the proposed encroachment work and, as appropriate, the dimensions and elevations of both the existing ground prior to said encroachment and of any proposed excavated surfaces after said encroachment work, the location of the encroachment work and such other information as may be prescribed by the town. (Ord 571 § 1, 1996.)

Applicant Response to 12.08.050: The Applicant acknowledges the above provision and has submitted a complying request to the Town, including plans detailing the encroachment work as provided for above.

12.08.055 Material Change Affects the Application and Permit Process.
Unless otherwise agreed to in writing by the Town, any material changes to an Encroachment Permit application, as determined by the Town in its sole discretion, shall be considered a new application and the prior application shall be deemed withdrawn.

Applicant Response to 12.08.055: The Applicant acknowledges the above provision and understands that in the event there are material changes to an Encroachment Permit application, the Town may consider the request a new application and the prior application withdrawn.

12.08.060 Permit fees
Permit fees charged for the issuance of encroachment permits shall be as set forth in the following schedule and shall be in addition to all other fees for permits or charges relative to any proposed construction work.

Encroachment Permit Fee Schedule

Encroachment Activity	Fee

Utility excavation in public street	$ 200
Utility excavation in public alley	$ 100
Utility excavation in public easement	$ 100
Driveway cuts/curb cuts installation/replacement	$ 100
Curb and gutter installation	$ 100
Sidewalk installation	$ 100

Construction-related activities:

Occupying of street travel lane $ 200/day Occupying of public alley $ 100/day Occupying of time-restricted parking space $ 50/day/space

House-moving $ 25 plus hourly charges for town staff that assist in the moving. Other As deemed appropriate by the Public Works Director.

These fees shall be placed within a designated public improvements account and shall be used for the purpose of funding public infrastructure improvements or repairs, except that the fees collected for the occupying of streets, alleys, and parking spaces for construction-related activities shall be placed in the fee-in-lieu-of-parking account.

Applicant Response to 12.08.060: The Applicant acknowledges the above fees and further states that the fees applicable to the application are set forth in the pending Franchise Agreement between the Town of Jackson and the Applicant.

12.08.070 Permit-Placard-Display required

The town shall provide each permittee at the time a permit is issued hereunder a suitable placard plainly written or printed in English letters at least one inch high with the following notice: "Town of Jackson," Permit No.....Expires..... and in the first blank space there shall be inserted the number of the permit and after work "expires" shall be stated the date when the permit expires. It shall be the duty of any permittee hereunder to keep the placard posted in a conspicuous place at the site of the encroachment work. It is unlawful for any person to exhibit such placard at or about any encroachment not covered by such permit or to misrepresent the number of the permit or the date of the expiration of the permit. (Ord 571 § 1, 1996.)

Applicant Response to 12.08.070: The Applicant acknowledges the above provision and understands that a placard card will be provided when the permit is issued.

12.08.080 Surety bond

Before an encroachment permit as herein provided is issued, the applicant shall deposit with the town a surety bond in the amount of one thousand dollars payable to the town. The required surety bond must be:

A. With good and sufficient surety;

B. By a surety company authorized to transact business in the state;

C. Satisfactory to the town attorney in form and substance;

D. Conditioned upon the permittee's compliance with this chapter and to secure and hold the town and its other costs arising from the encroachment and other work covered by the excavation permit or for which the town, the town council or any town officer may be made liable by reason of any accident or injury to persons or property through the fault of the permittee either in not properly guarding the encroachment or for any other injury resulting from the negligence of the permittee, and further conditioned to fill up, restore and place in good and safe condition as near as may be to its original condition, and to the satisfaction of the town public

works director, all openings and excavations made in streets. Any owner of real estate constructing, modifying, or repairing or engaging another to construct, modify, or repair his own sidewalk shall not be required to give such bond. Recovery on such bond for any injury or accident shall not exhaust the bond but it shall in its entirety cover any or all future accidents or injuries during the excavation work for which it is given. In the event of any suit or claim against the town by reason of the negligence or default of the permittee, upon the town's giving written notice to the permittee of such suit or claim, any final judgment against the town requiring it to pay for such damage shall be conclusive upon the permittee and his surety. An annual bond may be given under this provision which shall remain in force for one year conditioned as above, in the amount of twenty thousand dollars ($20,000) and in other respects as specified above but applicable as to all encroachment work in streets by the principal in such bond during the term of one year from said date. Individual bonds shall be released at the completion of the permitted work consistent with the restrictions of Section 12.08.380.

Applicant Response to 12.08.080: The Applicant acknowledges the above and further states that the applicable bond requirements are set forth in the pending Franchise Agreement between the Town of Jackson and the Applicant.

12.08.090 Routing of traffic

The permittee shall take appropriate measures to assure that during the performance of the encroachment work traffic conditions as nearly normal as practicable shall be maintained at all times so as to cause as little inconvenience as possible to the occupants of the abutting property and to the general public, provided that the town public works director may permit the closing of streets to all traffic for a period of time prescribed by him if in his opinion it is necessary. The permittee shall route and control traffic including its own vehicles as directed by the town police department. The following steps shall be taken before any highway may be closed or restricted to traffic:

A. The permittee must receive the approval of the town public works director and the police department therefor;

B. The permittee must notify the chief of the fire department of any street so closed;

C. Upon completion of construction work the permittee shall notify the town public works director and town police department before traffic is moved back to its normal flow so that any necessary adjustments may be made;

D. Where flagmen are deemed necessary by the town public works director they shall be furnished by the permittee at its own expense. Through traffic shall be maintained without aid of detours, if possible. In instances in which this would not be feasible the town public works director will designate detours. The town shall maintain roadway surfaces of existing highways designated as detours without expense to the permittee but in case there are no existing highways the permittee shall construct all detours at its expense and in conformity with the specifications of the town public works director. The permittee will be responsible for any unnecessary damage caused to any highways by the operation of its equipment. (Ord 571 § 1, 1996.)

Applicant Response to 12.08.090: The Applicant acknowledges the above and agrees to take all appropriate measures with respect to traffic control.

12.08.100 Clearance for fire equipment

The encroachment work shall be performed and conducted so as not to interfere with access to fire stations and fire hydrants. Materials or passageways leading to fire escapes or fire- fighting equipment shall be kept free of piles of material or other obstructions.

Applicant Response to 12.08.100: The Applicant acknowledges the above and agrees not to interfere with access to fire stations or hydrants.

12.08.110 Protection of traffic

The permittee shall erect and maintain suitable timber barriers to confine earth from trenches or other excavations in order to encroach upon highways as little as possible. The permittee shall construct and maintain adequate and safe crossings over excavations and across highways under improvement to accommodate vehicular and pedestrian traffic at all street intersections. Vehicular crossings shall be constructed and maintained of plank, timbers, and blocking or steel plates of adequate size and thickness to accommodate vehicular traffic safely. Decking shall be not less than four inches thick and shall be securely fastened together with heavy wire and staples. Pedestrian crossings shall consist of planking three inches thick, twelve inches wide, and of adequate length, together with necessary blocking or other materials meeting the satisfaction of the town public works director. The walk shall be not less than three feet in width and shall be provided with a railing as required by the town public works director.

Applicant Response to 12.08.110: The Applicant acknowledges the above and agrees to protect traffic in accordance with this provision.

12.08.120 Removal and protection of utilities

The permittee shall not interfere with any existing utility without the written consent of the town public works director and the utility company or person owning the utility. If it becomes necessary to remove an existing utility this shall be moved to accommodate the permittee unless the cost of such work be borne by the permittee. The cost of moving privately owned utilities shall be similarly borne by the permittee unless it makes other arrangements with the person owning the utility. The permittee shall support and protect by timbers or otherwise all pipes, conduits, poles, wires or other apparatus which may be in any way affected by the encroachment work, and do everything necessary to support, sustain and protect them under, over, along or across said work. In case any of the pipes, conduits, poles, wires or apparatus should be damaged, they shall be repaired by the agency or person owning them and the expense of such repairs shall be charged to the permittee, and his or its bond shall be liable therefor. The permittee shall be responsible for any damage done to any public or private property by reason of the breaking of any water pipes, sewer, gas pipe, electric conduit or other utility and its bond shall be liable therefor. The permittee shall inform itself as to the existence and location of all underground utilities and protect the same against damage.

Applicant Response to 12.08.120: The Applicant acknowledges the above and agrees not to interfere with any existing utility without the required consent.

12.08.130 Protection of adjoining property

The permittee shall at all times and at his or its own expense preserve and protect from injury any adjoining property by providing proper foundations and taking other measures suitable for the purpose. Where in the protection of such property it is necessary to enter upon private property for the purpose of taking appropriate protective measures, the permittee shall obtain a license from the owner of such private property for such purpose and if he cannot obtain a license from such owner the town public works director may authorize him to enter the private premises solely for the purpose of making the property safe. The permittee shall, at its own expense, shore up and protect all buildings, walls, fences or other property likely to be damaged during the progress of the encroachment work and shall be responsible for all damage to public or private property or highways resulting from its failure properly to protect and carry out said work. Whenever it may be necessary for the permittee to trench through any lawn area, the sod shall be carefully cut and rolled and replaced after ditches have been backfilled as required in this chapter. All construction and maintenance work shall be done in a manner calculated to leave the lawn area clean of debris and in a condition as nearly as

possible to that which existed before such work began. The permittee shall not remove even temporarily any trees or shrubs which exist in parking strip areas or easements across private property without first having notified and obtained the consent of the property owner, or in the case of public property the appropriate town department of town official having control of such property.

Applicant Response to 12.08.130: The Applicant acknowledges the above and agrees to comply with this provision.

12.08.140 Sidewalk excavations

Any excavation made in any sidewalk or under a sidewalk shall be provided with a substantial and adequate footbridge over the excavation on the line of the sidewalk, which bridge shall be at least three feet wide and securely railed on each side so that foot passengers can pass over safely at all times.

Applicant Response to 12.08.140: The Applicant acknowledges the above and agrees to comply with this provision to the extent it applies to the proposed projects.

12.08.150 Protective measures

The permittee shall erect such fence, railing or barriers about the site of the encroachment work as shall prevent danger to persons using the town street or sidewalks, and such protective barriers shall be maintained until the work shall be completed or the danger removed. At twilight there shall be placed upon such place of encroachment and upon any excavated materials or structures or other obstructions to streets suitable and sufficient lights which shall be kept burning throughout the night during the maintenance of such obstructions. Whenever through traffic on a street is cut off by virtue of the encroachment, the permittee shall erect detour signs at each intersection on either side of the encroachment. It is unlawful for anyone to remove or tear down the fence, railing, protective barriers, lights, or detour signs provided at or near the encroachment for the protection of the public.

Applicant Response to 12.08.150: The Applicant acknowledges the above and agrees to comply with this provision and erect a barrier around the proposed projects.

12.08.160 Attractive nuisance

It is unlawful for the permittee to suffer or permit to remain unguarded at the place of encroachment any machinery, equipment or other device having the characteristics of an attractive nuisance likely to attract children and hazardous to their safety or health.

Applicant Response to 12.08.160: The Applicant acknowledges the above and agrees to comply with this provision regarding the prohibition of establishing an attractive nuisance.

12.08.170 Care of excavated material

All material excavated from trenches and piled adjacent to the trench or in any street shall be piled and maintained in such manner as not to endanger those working in the trench, pedestrians or users of the streets, and so that as little inconvenience as possible is caused to those using streets and adjoining property. Where the confines of the area being excavated are too narrow to permit the piling of excavated material beside the trench, such as might be the case in a narrow alley, the town public works director shall have the authority to require that the permittee haul the excavated material to a storage site and then rehaul it to the trench site at the time of backfilling. It shall be the permittee's responsibility to secure the necessary permission and make all necessary arrangements for all required storage and disposal sites.

Applicant Response to 12.08.170: The Applicant acknowledges the above and agrees to comply with this provision regarding excavated material.

12.08.180 Damage to existing improvements

All damage done to existing improvements during the progress of the encroachment work shall be repaired by the permittee. Materials for such repair shall conform with the requirements of any applicable code or ordinance. If upon being ordered the permittee fails to furnish the necessary labor and materials for such repairs, the town public works director shall have the authority to cause the necessary labor and materials to be furnished by the town and the cost shall be charged against the permittee, and the permittee shall also be liable for the cost thereof under the surety bond provided hereunder.

Applicant Response to 12.08.180: The Applicant acknowledges the above and agrees to make repairs for any damage to existing improvements occurring during the progress of the encroachment work.

12.08.190 Tracked construction vehicles

Except by special permission of the public works director, no tracked construction vehicle shall travel over the streets of the town except on a trailer.

Applicant Response to 12.08.190: The Applicant acknowledges the above and agrees to comply with this provision regarding tracked construction vehicles.

12.08.200 Property lines and easements

Property lines and limits of easements shall be indicated on the plan of encroachment submitted with the application for the encroachment permit and it shall be the permittee's responsibility to confine encroachment work within these limits.

Applicant Response to 12.08.200: The Applicant acknowledges the above and agrees to comply with this provision that requires the Applicant to confine encroachment work within the limits of the right-of-way, property lines or easements as applicable.

12.08.210 Clean-up

As the encroachment work progresses all streets and private properties shall be thoroughly cleaned of all rubbish, excess earth, rock and other debris resulting from such work. All clean-up operations at the location of such encroachment shall be accomplished at the expense of the permittee and shall be completed to the satisfaction of the public works director. From time to time as may be ordered by the town public works director and in any event immediately after completion of the work, the permittee shall at his or its own expense clean up and remove all refuse and unused materials of any kind resulting from the work and upon failure to do so within twenty-four hours after having been notified to do so by the town public works director the work may be done by the town and the cost thereof charged to the permittee, and the permittee shall also be liable for the cost thereof under the surety bond provided hereunder.

Applicant Response to 12.08.210: The Applicant acknowledges the above and agrees to comply with this provision regarding cleaning up the encroachment work area.

12.08.220 Protection of watercourses

The permittee shall provide for the flow of all watercourses, sewers or drains intercepted during the excavation work and shall replace the same in as good condition as it found them or shall make such provisions for them as the town public works director may direct. The permittee shall not obstruct the gutter of any street but shall use all proper measures to provide for the free passage of surface water. The permittee shall make provisions to take care of all surplus water, muck, silt, slickings or other run-off pumped from excavations or resulting

from sluicing or other operations and shall be responsible for any damage resulting from its failure to so provide.

Applicant Response to 12.08.220: The Applicant acknowledges the above and agrees to comply with this provision regarding protecting watercourses.

12.08.230 Breaking through pavement

Whenever it is necessary to break through existing pavement for encroachment purposes, the pavement shall be removed to at least twelve inches beyond the outer limits of the subgrade that is to be disturbed in order to prevent settlement, and a twelve-inch shoulder of undisturbed material shall be provided in each side of the excavated trench. The face of the remaining pavement shall be approximately vertical. A power driven concrete saw shall be used so as to permit complete breakage of concrete pavement or base without ragged edges. Asphalt paving shall be scored or otherwise cut in a straight line. No pile driver or jackhammer may be used in breaking up the pavement. Whenever it is necessary to break through existing concrete curb and gutter for encroachment purposes, a power-driven concrete saw shall be used, and the curb and gutter shall be cut at the interface with the asphalt street surface and at full curb and gutter section lines and shall be replaced to those full section lines.

Applicant Response to 12.08.230: The Applicant acknowledges the above and agrees to comply with this provision regarding breaking through the pavement.

12.08.240 Tunnels

Tunnels under pavement shall not be permitted except by permission of the town public works director and if permitted shall be adequately supported by timbering and backfilling under the direction of the town public works director.

Applicant Response to 12.08.240: The Applicant acknowledges the above and agrees to comply with this provision to the extent it becomes applicable to the proposed projects.

12.08.250 Backfilling

Backfilling in any street opened or excavated pursuant to an encroachment permit issued hereunder shall be carried out in conformance with the adopted street and alley excavation and backfill standard of the town.

Applicant Response to 12.08.250: The Applicant acknowledges the above and agrees to comply with this provision regarding backfiling.

12.08.260 Restoration of surface

A. The permittee shall restore the surface of all streets, broken into or damaged as a result of the encroachment work in accordance with the adopted street and alley excavation and backfill standard of the town and any additional requirements imposed by the town public works director. The permittee may be required to place a temporary surface over openings made in paved traffic lanes. Except when the pavement is to be replaced before the opening of the cut to traffic, the fill above the bottom of the paving slab shall be made with suitable material well tamped into place and this fill shall be topped with a minimum of at least one inch of bituminous mixture which is suitable to maintain the opening in good condition until permanent restoration can be made. The crown of the temporary restoration shall not exceed one inch above the adjoining pavement. The permittee shall exercise special care in making such temporary restorations and must maintain such restoration in safe traveling condition until such time as permanent restorations are made. The asphalt which is used shall be in accordance with the specifications of the town public works director. If in the judgment of the town public works director it is not expedient to replace the pavement over any cut or excavation made in the street upon completion of the work allowed under such permit by reason of the

looseness of the earth or weather conditions he may direct the permittee to lay a temporary pavement of wood or other suitable material designated by him over such cut or excavation to remain until such time as the repair of the original pavement may be properly made.

Applicant Response to 12.08.260.A: The Applicant acknowledges the above and agrees to comply with this provision regarding surface restoration.

B. Permanent restoration of the street shall be made by the permittee in strict accordance with the adopted street and alley excavation and backfill standard of the town.

Applicant Response to 12.08.260.B: The Applicant acknowledges the above and agrees to comply with this provision regarding restoration.

C. Except as expressly permitted in writing by the public works director, the completion of street surface restoration shall be achieved by the permittee within forty-eight (48) hours of the completion of the work for which the permit is issued.

Applicant Response to 12.08.130: The Applicant acknowledges the above and agrees to comply with this provision regarding restoration to the extent feasible.

12.08.270 Town's right to restore surface

If the permittee has failed to restore the surface of the street to its original and proper condition upon the expiration of the time fixed by such permit or has otherwise failed to complete the encroachment work covered by such permit, the town public works director, if he deems it advisable, shall have the right to do all work and things necessary to restore the street and to complete the encroachment work. The permittee shall be liable for the actual cost thereof and twenty-five percent of such cost in addition for general overhead and administrative expenses. The town shall have a cause of action for all fees, expenses and amounts paid out and due it for such work and shall apply in payment of the amount due it for any funds of the permittee deposited as herein provided and the town shall also enforce its rights under the permittee's surety bond provided pursuant to this chapter.

Applicant Response to 12.08.270: The Applicant acknowledges the above rights of the Town.

12.08.280 Trenches in pipe laying

Except by special permission from the town public works director, no trench shall be excavated more than two hundred fifty feet in advance of pipe laying nor left unfilled more than five hundred feet where pipe has been laid. The length of the trench that may be opened at any one time shall not be greater than the length of pipe and the necessary accessories which are available at the site ready to be put in place. Trenches shall be braced and sheathed according to generally accepted safety standards for construction work as prescribed by Wyoming OSHA. No timber bracing, lagging, sheathing or other lumber shall be left in any trench. Except where otherwise permitted by the public works director, trenches shall be closed at the end of each day of work.

Applicant Response to 12.08.280: The Applicant acknowledges the above and agrees to comply with this provision regarding trenching.

12.08.290 Prompt completion of work

The permittee shall prosecute with diligence and expedition all encroachment work covered by the encroachment permit and shall promptly complete such work and restore the street to its original condition, or as near as may be, as soon as practicable and in any event not later than the date specified in the encroachment permit therefor.

Applicant Response to 12.08.290: The Applicant acknowledges the above and agrees to comply with this provision to the extent feasible.

12.08.300 Urgent work

If in his judgment traffic conditions, the safety or convenience of the traveling public or the public interest require that the encroachment work be performed as emergency work, the town public works director shall have full power to order, at the time the permit is granted, that a crew of men and adequate facilities be employed by the permittee twenty-four hours a day to the end that such encroachment work may be completed as soon as possible.

Applicant Response to 12.08.300: The Applicant acknowledges the above provision regarding urgent work.

12.08.310 Emergency repairs

In the event of any emergency in which a sewer, main, conduit or utility in or under any street breaks, bursts or otherwise is in such condition as to immediately endanger the property, life, health or safety or any individual, the person owning or controlling such sewer, main, conduit or utility, without first applying for and obtaining an encroachment permit hereunder, shall immediately take proper emergency measures to cure or remedy the dangerous conditions for the protection of property, life, health and safety of individuals. However, such person owning or controlling such facility shall apply for an encroachment permit not later than the end of the next succeeding day during which the town offices are open for business, and shall not proceed with permanent repairs without first obtaining an encroachment permit hereunder.

Applicant Response to 12.08.310: The Applicant acknowledges the above provision regarding emergency repairs.

12.08.320 Winter excavations

Except by special permission of the public works director, and then only under those conditions of approval deemed appropriate by the public works director, no encroachment permit shall be issued for excavations within the streets of the town between October 15 of a calendar year and April 15 of the following calendar year.

Applicant Response to 12.08.320: The Applicant acknowledges the above and agrees to comply with this provision to the extent it is not preempted by federal law.

12.08.330 Noise, dust and debris prevention

Each permittee shall conduct and carry out the encroachment work in such manner as to avoid unnecessary inconvenience and annoyance to the general public and occupants of neighboring property. The permittee shall take appropriate measures to reduce to the fullest extent practicable in the performance of the encroachment work noise, dust and unsightly debris and, between the hours of nine p.m. and seven a.m., shall not use, except with the express written permission of the town public works director or in case of an emergency as herein otherwise provided, any tool, appliance or equipment producing noise of sufficient volume to disturb the sleep or repose of occupants of the neighboring property.

Applicant Response to 12.08.330: The Applicant acknowledges the above and agrees to comply with this provision regarding noise, dust and debris impacts to the general public and occupants of neighboring properties.

12.08.340 Excavations barred in new street improvements

A. Whenever the town council authorizes the paving or repaving of any street, the town engineer shall promptly mail a written notice thereof to each person owning any sewer, main, conduit or other utility in or under the street or any real property whether improved or unimproved, abutting the street. Such notice shall notify such persons that no encroachment permit shall be issued for openings, cuts or excavations in the street for a period of five years after the date of the completion of the street paving or repaving project. Such notice shall also notify such persons that applications for encroachment permits for work involving excavations within the street to be done prior to such paving or repaving shall be submitted promptly in order that the work covered by the permit may be completed prior to the commencement of the street paving or repaving project. The town engineer shall also promptly mail copies of such notice to the occupants of all houses, buildings and other structures abutting the street for their information and to state agencies and town departments or other persons that may desire to perform excavation work in the town street.

Applicant Response to 12.08.340.A: The Applicant acknowledges the above and agrees to comply with this provision to the extent not preempted by federal law.

B. Within forty-five days every public utility company receiving notice as prescribed herein shall perform such excavation work, subject to the provisions of this chapter, as may be necessary to install or repair sewers, mains, conduits or other utility installations. In the event any owner of real property abutting the street fails within said forty-five days to perform such excavation work as may be required to install or repair utility service lines or service connections to the property lines, any and all rights of such owner or his successors in interest to make openings, cuts or excavations in said street shall be forfeited for a period of five years from the date of the completion of the street paving or repaving project. During said five year period no excavation permit shall be issued to open, cut, or excavate in the street unless in the judgment of the town public works director, an emergency as described in this chapter exists which makes it absolutely essential that the encroachment permit be issued. If no such emergency exists, the public works director may also, at his discretion, allow a requested opening, cut, or excavation to take place, provided that as a condition of issuance of the encroachment permit the permittee is obligated to install a one (1) inch pavement overlay over the entire street surface of the block of the street within which the opening, cut, or excavation takes place.

Applicant Response to 12.08.340.B: The Applicant acknowledges the above provision.

C. Every town department or official charged with responsibility for any work that may necessitate any opening, cut or excavation in the street is directed to take appropriate measures to perform such excavation work in a timely manner so as to avoid the necessity for making any openings, cuts or excavations in the new pavement in the town street during said five year period.

Applicant Response to 12.08.340.C: The Applicant acknowledges the above provision.

12.08.350 Preservation of monuments

The permittee shall not disturb any surface monuments or hubs found on the line of encroachment work until ordered to do so by the town public works director.

Applicant Response to 12.08.350: The Applicant acknowledges the above provision and agrees not to disturb monuments except at the direction or consent of the town public works director.

12.08.360 Trash receptacles

Trash receptacles stored within public alleys, including "dumpsters", shall be construed as encroachments and shall not be allowed without an encroachment agreement. No development permit, including building permits, shall be issued for any property adjacent to a public alley for which storage of trash within the property boundaries has not been provided.

Applicant Response to 12.08.360: The Applicant acknowledges the above provision to the extent it applies to the proposed project.

12.08.370 Tracking of mud

Parties carrying out excavation, earth-moving, or earth-storage activities, whether on private property or within public streets, shall take whatever measures are necessary to avoid the tracking of mud onto the streets of the town.

Applicant Response to 12.08.370: The Applicant acknowledges the above provision and will avoid tracking mud onto the streets.

12.08.380 Inspections - Enforcement

The Town Public Works Department and Town Building Department shall make such inspections as are reasonably necessary in the enforcement of this chapter and shall have the authority to promulgate and cause to be enforced such rules and regulations as may be reasonably necessary to enforce and carry out the intent of this chapter.

For all permitted work which occurs that is not in compliance with an approved construction staging and/or encroachment plan, enforcement procedures shall be as follows:

First offense - The project will receive verbal and written notice of the obligations to conform to the approved encroachment and/or staging plan.

Second offense - The project will receive verbal and written notice of the obligations to conform to the approved encroachment and/or staging plan.

Third offense – The project will receive written notice of the infractions and their obligations to conform to approved staging plan and receive "red tagged" (shut down) for a 24-hour period.

Forth offense – The project will receive written notice of the infractions, be "red tagged" for a period of 24 hours and be given a citation to the Jackson Municipal Court.

Fifth offense and beyond – The project will receive written notice of the infractions, be "red tagged" for a 3 or more working days depending on the level of the infraction and receive an additional citation to appear in the Jackson Municipal Court.

No release of the surety bond required under Section 12.08.080 shall take place without the prior approval of the Public Works Director.

Applicant Response to 12.08.380: The Applicant acknowledges the above provision regarding inspection and enforcement of this chapter.

12.08.390 Map and As-Built Drawings.

A. Users of subsurface street space shall maintain accurate drawings, plans, and profiles showing the location and character of all underground structures including abandoned installations. Corrected maps shall be filed with the Town Engineer within sixty (60) days after new installations, changes or replacements are made. Maps shall be provided to the Town in both reproducible hardcopy format and shall be provided to the

Town in an electronic format compatible with the Town's geographic information system and acceptable to the Town Engineer.

Applicant Response to 12.08.390.A: The Applicant acknowledges the above provision and agrees to provide maps in accordance with the requirements of the Town.

B. Permittees must meet the standards set forth in Section A for all aboveground structures associated with Communications Facilities, Poles built for the sole or primary purpose of supporting communications facilities, and/or Towers in the Public ROW.

Applicant Response to 12.08.390.B: The Applicant acknowledges the above provision and agrees to comply as required.

12.08.400 Chapter inapplicable to town work

The provisions of this chapter shall not be applicable to any excavation work under the direction of competent town authorities by employees of the town or by any contractor of the town performing work for and in behalf of the town necessitating openings or excavations in streets.

Applicant Response to 12.08.400: The Applicant acknowledges the above provision.

12.08.410 Public service companies-Applicability of provisions

The provisions of this chapter shall be applicable to all persons operating public utilities in the town under franchises granted by the town and having the right either by general or special permission to enter upon streets and open and excavate pavements, sidewalks or disturb the surface thereof by excavation or other work, and such persons shall be required to apply for a permit and to comply with all other provisions of this chapter, except that the fee schedule set forth in Section 12.08.060 shall not apply to such persons.

Applicant Response to 12.08.410: The Applicant acknowledges the above provision.

12.08.420 Insurance required

A permittee, prior to the commencement of encroachment work hereunder, shall furnish the town satisfactory evidence in writing that the permittee has in force and will maintain in force during the performance of the excavation work and the period of the encroachment permit public liability insurance of not less than five hundred thousand dollars for any one person and five hundred thousand dollars for any one accident and property damage insurance of not less than five hundred thousand dollars duly issued by an insurance company authorized to do business in this state.

Applicant Response to 12.08.420: The Applicant is complying with the insurance requirements as provided for the in the pending Franchise Agreement.

12.08.430 Liability of town

This chapter shall not be construed as imposing upon the town or any official or employee any liability or responsibility for damages to any person injured by the performance of any encroachment work for which an encroachment permit is issued hereunder; nor shall the town or any official or employee thereof be deemed to have assumed any such liability or responsibility by reason of inspections authorized hereunder, the issuance of any permit or the approval of any encroachment work.

Applicant Response to 12.08.430: The Applicant acknowledges the above provision.

12.08.440 Penalty for violations

Any person violating any of the provisions of this chapter is guilty of a misdemeanor and upon conviction thereof shall be punished in accordance with the provisions of Section 1.12.010 of this code. Each day such violation is committed or permitted to continue constitutes a separate offense and shall be punish-able as such hereunder. In addition to the penalties set forth, the town may institute injunction, abatement, or any other appropriate action to prevent, enjoin, abate, or remove any encroachment activities taking place in violation of this ordinance.

Applicant Response to 12.08.440: The Applicant acknowledges the above provision.

Statement of Compliance with the Small Cell Infrastructure Design Guidelines as to Type II and Type III Installations

Section	Type II Standard	Type III Standard	Complies
1. Typical Configuration			
2. General Requirements			
3. Placement Requirements			
4. Equipment Color			
5. Equipment Shroud / Cabinet			
6. Cantenna			
7. Required Equipment			
8. Notification Labels			
9. Owner Identification			
10. Luminaire			
11. Luminaire Mast Arm			
12. Pole Size & Type			
13. Small Cell Height			
14. Electrical Separation			
15. Conduit Sweeps in Foundation			
16. Design Wind Velocity			
17. Foundation			
18. Bolt Circle			
19. Access Doors			
20. Ventilation			

EXHIBIT C(2)(J)(3)
30 FT SMALL CELL POLE
STRUCTURAL ANALYSIS – WY.

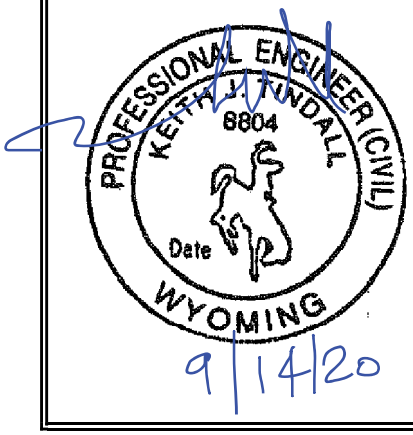
Structural Design Report

25'-4" Smart Stack (30' Overall Height AGL)
Site: CRAN_JCKSN_6 (Node 280095)
Site Number: Wyoming Market 20" Base Smart Stack (30' AGL)

Prepared for: SMARTLINK, LLC
by: Sabre Industries ™

Job Number: 20-5050-EPG Opt. 6
Revision A

September 14, 2020



This document was originally issued and sealed by Keith J. Tindall, Registration No. 8804, on 9/14/2020 and the original document is stored at Sabre Industries in Sioux City, IA.

Digitally Signed By Keith Tindall
DN: c=US, st=Texas, l=Alvarado, o=SABRE INDUSTRIES, INC., cn=Keith Tindall, email=kjtindall@sabreindustries.com Date: 2020.09.14 12:22:11

Designed Appurtenance Loading

Elev	Description	Tx-Line
28.83	(1) GQ2410-06621	(1) 1/2"
27.81	(1) Canister (13" x 53.50")	
26.48	(1) Airscale Micro RRH B46 2T1W (LAA)	(1) 1/2"
25.33	Top Flange	
25.33	Top Flange	
25.33	(1) Small Cell Cable Skirt (12")	
23.33	Custom Mount	
18	Acorn Light w/Decorative Arm	
5.14	(1) W0408ML1125	(1) 1/2"
4.25	(1) FWP-8SC-12SP	(1) 1/2"
4.17	Custom Mount	
4	Custom Mount	
3	Custom Mount	
3	(1) Ringless Meter (40405-025)	(1) 1/2"
2.57	(1) GED-TG3222R	(1) 1/2"
2.48	(2) AirScale B66 Micro RRH	(2) 1/2"
2	Custom Mount	
2	Custom Mount	
1.83	(2) BK-747EW	(2) 1/2"
1.5	Custom Mount	

Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	115 mph
Wind Speed (Ice)	0 mph
Design Ice Thickness	0.00 in
Risk Category	I
Exposure Category	C
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	6200 ft

Load Case Reactions

Description	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
3s Gusted Wind	1.94	0.47	7.4	0.01	0.05
3s Gusted Wind 0.9 Dead	1.46	0.47	7.4	0.01	0.05
Service Loads	1.62	0.16	2.58	0	0.02

Base Plate Dimensions

Shape	Width	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Square	23.5"	1"	23.5"	4	1"

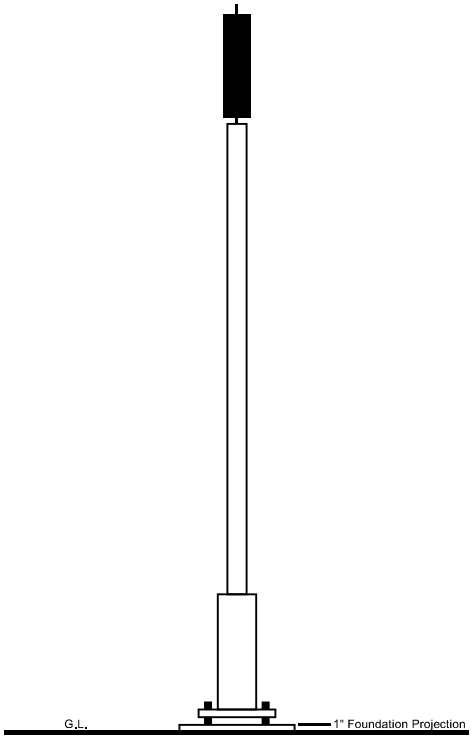
Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish	Projection
51"	1"	1.25"	56.8	F1554-105	Galv	7"

Notes

1) Antenna Feed Lines Run Inside Pole
2) All dimensions are above ground level, unless otherwise specified.
3) Weights shown are estimates. Final weights may vary.
4) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 International Building Code.
5) Tower Rating: 7%

Length (ft)	20'-3"								
Number Of Sides	Round								
Thickness (in)	0.3650"								
Lap Splice (ft)									
Top Diameter (in)	10.75"								
Bottom Diameter (in)	10.75"								
Taper (in/ft)	0								
Grade	A500 Grade C-50								
Weight (lbs)	875								
Overall Steel Height (ft)	25.25								
Length (ft)	5'-0"								
Thickness (in)	0.3750"								
Top Diameter (in)	20"								
Bottom Diameter (in)	20"								
Grade	A53 Grade B-35								
Weight (lbs)	421								

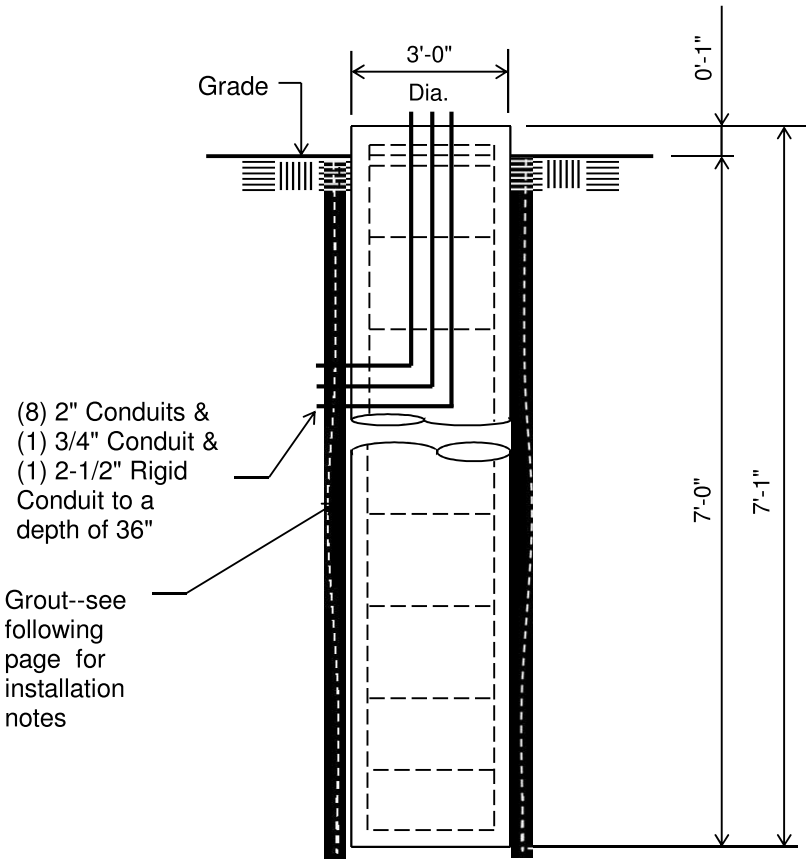


Sabre Industries
INNOVATION DELIVERED
Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
Phone: (712) 258-6690
Fax: (712) 279-0814

Job:	**20-5050-EPG Opt. 6-RA**
Customer:	SMARTLINK, LLC
Site Name:	CRAN_JCKSN_6 (Node 280095) Wyoming Market 20" Base Smart Stack (30' AGL)
Description:	25'-4" Smart Stack - Pipe Pole
Date:	9/14/2020 By: KJT

No.: 20-5050-EPG Opt. 6
Date: 09/14/20
By: KJT
Revision A

Customer: SMARTLINK, LLC
Site: CRAN_JCKSN_6 (Node 280095) Wyoming Market 20'' Base Smart Stack (30' AGL)
25.33' Smart Stack



ELEVATION VIEW
(1.85 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

1) Concrete shall have a minimum 28-day compressive strength of 5,000 psi, in accordance with ACI 318-14.
2) Rebar to conform to ASTM specification A615 Grade 60.
3) All rebar to have a minimum of 3" concrete cover.
4) All exposed concrete corners to be chamfered 3/4".
5) The foundation design is based on presumptive clay soil as defined in ANSI/TIA-222-H-2017.
6) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier	
Pier	(12) #6 vertical rebar w/ #3 ties, (3) within top 5" of pier, then 12" C/C

7101 Southbridge Drive - P.O. Box 658 - Sioux City, IA 51102-0658 - Phone 712.258.6690 - Fax 712.279.0814

Customer: SMARTLINK, LLC
Site: CRAN_JCKSN_6 (Node 280095) Wyoming Market 20" Base Smart Stack (30' AGL)
Precast Foundation for a 25.33' SmartStack

Installation Notes:

1). Lifting plate assemblies shall be tightened against concrete surface using heavy hex nuts and F436 hardened flat washers. Nuts to be snug tight.

2). Approximate weight of pier is 7600 pounds.

3). Drilled hole shall be no larger than 42" diameter.

4). Loads at ground surface should be minimized in close proximity to the excavated hole, before it has been grouted.

5). Top of pier shall be held level (plus or minus 1 degree) during installation of grout.

6). A quick-setting grout shall be used for same day installation of the foundation and SmartStack structure.

7). Grout shall be non-shrink, with a 7-day compressive strength of at least 5000 psi.

8). Air voids within the grouted space should be minimized by tamping with a rod.

9). Minimum grout requirement for a neatly drilled 42" diameter hole is 0.66 cubic yards.

10). This design assumes the drilled hole can remain stable during installation. It may not be appropriate for weak, collapsible soil, or in locations where groundwater will be encountered.

25.33' Pipe Pole / CRAN_JCKSN_6 (Node 280095)

* All pole diameters shown on the following pages are across corners.
See profile drawing for widths across flats.

POLE GEOMETRY

ELEV ft	SECTION NAME	No. SIDE	OUTSIDE DIAM in	THICK -NESS in	RESISTANCES ϕ*Pn kip	ϕ*Mn ft-kip	SPLICE TYPE	...OVERLAP... LENGTH ft	RATIO	w/t
25.2										
			10.75	0.365	535.9	147.7				
	A	0								29.5
			10.75	0.365	535.9	147.7				
5.0										
			20.00	0.375	728.3	379.2				
	B	0								53.3
			20.00	0.375	728.3	379.2				
0.0										

POLE ASSEMBLY

SECTION NAME	BASE ELEV ft	.....BOLTS AT BASE OF SECTION..... NUMBER	TYPE	DIAM in	STRENGTH ksi	THREADS IN SHEAR PLANE	CALC BASE ELEV ft
A	5.000	0	A325	0.00	92.0	0	5.000
B	0.000	0	A325	0.00	92.0	0	0.000

POLE SECTIONS

SECTION NAME	No.of SIDES	LENGTH ft	OUTSIDE.DIAMETER BOT * in	TOP * in	BEND RAD in	MAT-ERIAL ID	FLANGE.ID BOT	TOP	FLANGE.WELD ..GROUP.ID.. BOT	TOP
A	0	20.25	10.75	10.75	0.625	1	0	0	0	0
B	0	5.00	20.00	20.00	0.625	2	0	0	0	0

* - Diameter of circumscribed circle

MATERIAL TYPES

TYPE OF SHAPE	TYPE NO	NO OF ELEM.	ORIENT & deg	HEIGHT in	WIDTH in	.THICKNESS. WEB in	FLANGE in	IRREGULARITY .PROJECTION. % OF AREA	ORIENT deg
PL	1	1	0.0	10.75	0.37	0.365	0.365	0.00	0.0
PL	2	1	0.0	20.00	0.38	0.375	0.375	0.00	0.0

& - With respect to vertical

MATERIAL PROPERTIES

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	.. STRENGTH .. Fu ksi	Fy ksi	THERMAL COEFFICIENT /deg
1	29000.0	490.0	62.0	50.0	0.00001170
2	29000.0	490.0	60.0	35.0	0.00001170

* Only 2 condition(s) shown in full

LOADING CONDITION A

115 mph wind with no ice. Wind Azimuth: 0ϕ

LOADS ON POLE

LOADS ON POLE
=============

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	28.747	0.00	0.0	0.0	0.0000	0.0196	0.0000	0.0000
C	27.727	0.00	0.0	0.0	0.0707	0.0840	0.0000	0.0000
C	26.397	0.00	0.0	0.0	0.0000	0.0127	0.0000	0.0000
C	26.397	0.00	0.0	0.0	0.0000	0.0286	0.0000	0.0000
C	25.247	0.00	0.0	0.0	0.0295	0.0240	0.0000	0.0000
C	25.247	0.00	0.0	0.0	0.0003	0.0000	0.0000	0.0000
C	25.247	0.00	0.0	0.0	0.0000	0.0121	0.0000	0.0000
C	17.917	0.00	0.0	0.0	0.0748	0.1200	0.0000	0.0000
C	5.057	0.00	0.0	0.0	0.0000	0.0024	0.0000	0.0000
C	5.057	0.00	0.0	0.0	0.0000	0.0082	0.0000	0.0000
C	4.167	0.00	0.0	0.0	0.0000	0.0020	0.0000	0.0000
C	4.167	0.00	0.0	0.0	0.0000	0.0012	0.0000	0.0000
C	4.087	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	3.917	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	2.917	0.00	0.0	0.0	0.0000	0.0014	0.0000	0.0000
C	2.917	0.00	0.0	0.0	0.0000	0.0252	0.0000	0.0000
C	2.487	0.00	0.0	0.0	0.0000	0.0012	0.0000	0.0000
C	2.487	0.00	0.0	0.0	0.0000	0.0600	0.0000	0.0000
C	2.397	0.00	0.0	0.0	0.0000	0.0023	0.0000	0.0000
C	2.397	0.00	0.0	0.0	0.0000	0.0600	0.0000	0.0000
C	1.917	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	1.917	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	1.747	0.00	0.0	0.0	0.0000	0.0017	0.0000	0.0000
C	1.747	0.00	0.0	0.0	0.0000	0.0170	0.0000	0.0000
C	1.417	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
D	25.250	0.00	180.0	0.0	0.0105	0.0365	0.0000	0.0000
D	10.062	0.00	180.0	0.0	0.0097	0.0365	0.0000	0.0000
D	10.062	0.00	180.0	0.0	0.0113	0.0433	0.0000	0.0000
D	3.750	0.00	180.0	0.0	0.0113	0.0433	0.0000	0.0000
D	3.750	0.00	180.0	0.0	0.0180	0.0708	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0180	0.0708	0.0000	0.0000

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(USA 222-H) - Monopole Spatial Analysis (c)2017 Guymast Inc.

Tel:(416)736-7453 Fax:(416)736-4372 Web:www.guymast.com

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25.33' Pipe Pole / CRAN_JCKSN_6 (Node 280095)

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

MAST ELEV ft	DEFLECTIONS (ft) HORIZONTAL ALONG	HORIZONTAL ACROSS	DOWN	ROTATIONS (deg) TILT ALONG	TILT ACROSS	TWIST
25.2	0.01D	0.00E	0.00J	0.05D	0.00E	0.00K
20.2	0.01D	0.00E	0.00J	0.05D	0.00E	0.00K
15.1	0.00I	0.00X	0.00J	0.04D	0.00E	0.00E
10.1	0.00I	0.00K	0.00J	0.01I	0.00K	0.00K
3.8	0.00I	0.00K	0.00J	0.01I	0.00K	0.00K
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR ALONG kip	SHEAR.w.r.t.WIND.DIR ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	MOMENT.w.r.t.WIND.DIR ACROSS ft-kip	TORSION ft-kip
25.2	0.18 H	0.10 M	0.00 H	-0.18 O	0.00 I	0.00 H
	0.43 H	0.15 M	0.00 H	-0.82 A	0.00 H	0.00 E
20.2	0.43 G	0.15 D	0.00 E	-0.82 F	0.00 H	0.00 H
	0.79 G	0.28 D	0.00 E	-1.93 D	0.00 L	0.00 F
15.1	0.79 J	0.28 I	0.00 X	-1.93 D	0.00 L	0.00 K
	1.04 J	0.33 I	0.00 X	-3.48 I	0.00 E	0.00 K
10.1	1.04 J	0.33 O	0.00 K	-3.48 D	0.00 E	0.00 E
	1.42 J	0.40 O	0.00 K	-5.78 I	0.00 K	0.00 K
3.8	1.42 J	0.40 Q	0.00 O	-5.78 I	0.00 K	0.00 K
	1.94 J	0.47 Q	0.00 O	-7.40 I	0.00 K	0.00 K
base reaction	1.94 J	-0.47 Q	0.00 O	7.40 I	0.00 K	0.00 K

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
25.25	0.00H	0.00O	0.00M	0.00H	YES	29.45A	400.0
	0.00H	0.01A	0.00M	0.01G	YES	29.45A	400.0
20.19	0.00G	0.01F	0.00D	0.01F	YES	29.45A	400.0
	0.00G	0.01D	0.00D	0.01D	YES	29.45A	400.0
15.12	0.00J	0.01D	0.00I	0.01D	YES	29.45A	400.0
	0.00J	0.02I	0.00I	0.03I	YES	29.45A	400.0
10.06	0.00J	0.03D	0.00O	0.04D	YES	28.67A	400.0
	0.00J	0.02I	0.00O	0.02I	YES	53.33A	400.0
3.75	0.00J	0.02I	0.00Q	0.02I	YES	53.33A	400.0
	0.00J	0.02I	0.00Q	0.02I	YES	53.33A	400.0
0.00							

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN kip	SHEAR.w.r.t.WIND.DIR ALONG kip	SHEAR.w.r.t.WIND.DIR ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	MOMENT.w.r.t.WIND.DIR ACROSS ft-kip	TORSION ft-kip
1.94 J	0.47 Q	0.00 O	-7.40 I	0.00 K	0.00 K

25.33' Pipe Pole / CRAN_JCKSN_6 (Node 280095)

****
********** Service Load Condition **********
****

* Only 1 condition(s) shown in full

LOADING CONDITION A

60 mph wind with no ice. Wind Azimuth: 0◆

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	....FORCES.... HORIZ kip	DOWN kip	....MOMENTS.... VERTICAL ft-kip	TORSNAL ft-kip
C	28.747	0.00	0.0	0.0	0.0000	0.0163	0.0000	0.0000
C	27.727	0.00	0.0	0.0	0.0199	0.0700	0.0000	0.0000
C	26.397	0.00	0.0	0.0	0.0000	0.0106	0.0000	0.0000
C	26.397	0.00	0.0	0.0	0.0000	0.0238	0.0000	0.0000
C	25.247	0.00	0.0	0.0	0.0072	0.0200	0.0000	0.0000
C	25.247	0.00	0.0	0.0	0.0001	0.0000	0.0000	0.0000
C	25.247	0.00	0.0	0.0	0.0000	0.0101	0.0000	0.0000
C	17.917	0.00	0.0	0.0	0.0182	0.1000	0.0000	0.0000
C	5.057	0.00	0.0	0.0	0.0000	0.0020	0.0000	0.0000
C	5.057	0.00	0.0	0.0	0.0000	0.0068	0.0000	0.0000
C	4.167	0.00	0.0	0.0	0.0000	0.0017	0.0000	0.0000
C	4.167	0.00	0.0	0.0	0.0000	0.0010	0.0000	0.0000
C	4.087	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	3.917	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	2.917	0.00	0.0	0.0	0.0000	0.0012	0.0000	0.0000
C	2.917	0.00	0.0	0.0	0.0000	0.0210	0.0000	0.0000
C	2.487	0.00	0.0	0.0	0.0000	0.0010	0.0000	0.0000
C	2.487	0.00	0.0	0.0	0.0000	0.0500	0.0000	0.0000
C	2.397	0.00	0.0	0.0	0.0000	0.0019	0.0000	0.0000
C	2.397	0.00	0.0	0.0	0.0000	0.0500	0.0000	0.0000
C	1.917	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	1.917	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
C	1.747	0.00	0.0	0.0	0.0000	0.0014	0.0000	0.0000
C	1.747	0.00	0.0	0.0	0.0000	0.0142	0.0000	0.0000
C	1.417	0.00	0.0	0.0	0.0000	0.0000	0.0000	0.0000
D	25.250	0.00	180.0	0.0	0.0050	0.0405	0.0000	0.0000
D	10.062	0.00	180.0	0.0	0.0049	0.0405	0.0000	0.0000
D	10.062	0.00	180.0	0.0	0.0036	0.0481	0.0000	0.0000
D	3.750	0.00	180.0	0.0	0.0036	0.0481	0.0000	0.0000
D	3.750	0.00	180.0	0.0	0.0044	0.0787	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0044	0.0787	0.0000	0.0000

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

MAST ELEV ft	.....DEFLECTIONS (ft)..... HORIZONTAL ..... ALONG	ACROSS	DOWN	.....ROTATIONS (deg)..... TILT ..... ALONG	ACROSS	TWIST
25.2	0.00D	0.00L	0.00D	0.02D	0.00L	0.00L
20.2	0.00D	0.00L	0.00D	0.02D	0.00L	0.00L
15.1	0.00D	0.00L	0.00D	0.01D	0.00L	0.00L
10.1	0.00A	0.00L	0.00D	0.00A	0.00L	0.00L
3.8	0.00A	0.00L	0.00D	0.00A	0.00L	0.00L
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR ALONG kip	ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	ACROSS ft-kip	TORSION ft-kip
25.2						
	0.15 D	0.03 A	0.00 H	-0.05 C	0.00 H	0.00 I
	0.36 D	0.05 A	0.00 H	-0.25 D	0.00 C	0.00 C
20.2						
	0.36 D	0.05 D	0.00 L	-0.25 D	0.00 C	0.00 C
	0.66 D	0.10 D	0.00 L	-0.63 D	0.00 L	0.00 L
15.1						
	0.66 B	0.10 A	0.00 L	-0.63 D	0.00 L	0.00 L
	0.87 B	0.12 A	0.00 L	-1.18 D	0.00 L	0.00 L
10.1						
	0.87 D	0.12 A	0.00 L	-1.18 D	0.00 L	0.00 L
	1.18 D	0.14 A	0.00 L	-2.01 A	0.00 L	0.00 L
3.8						
	1.18 D	0.14 A	0.00 L	-2.01 A	0.00 L	0.00 L
	1.62 D	0.16 A	0.00 L	-2.58 A	0.00 L	0.00 L
base reaction	1.62 D	-0.16 A	0.00 L	2.58 A	0.00 L	0.00 L

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
25.25							
	0.00D	0.00C	0.00A	0.00C	YES	29.45A	400.0
	0.00D	0.00D	0.00A	0.00D	YES	29.45A	400.0
20.19							
	0.00D	0.00D	0.00D	0.00D	YES	29.45A	400.0
	0.00D	0.00D	0.00D	0.01D	YES	29.45A	400.0
15.12							
	0.00B	0.00D	0.00A	0.01D	YES	29.45A	400.0
	0.00B	0.01D	0.00A	0.01D	YES	29.45A	400.0
10.06							
	0.00D	0.01D	0.00A	0.01D	YES	28.67A	400.0
	0.00D	0.01A	0.00A	0.01A	YES	53.33A	400.0
3.75							
	0.00D	0.01A	0.00A	0.01A	YES	53.33A	400.0
	0.00D	0.01A	0.00A	0.01A	YES	53.33A	400.0
0.00							

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN kip	SHEAR.w.r.t.WIND.DIR ALONG kip	ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	ACROSS ft-kip	TORSION ft-kip
1.62 D	0.16 A	0.00 L	-2.58 A	0.00 L	0.00 L

SO#: 20-5050-EPG Opt. 6-RA
Site Name: CRAN_JCKSN_6 (Node 280095)
Date: 9/14/2020

Square Base Plate and Anchor Rods per ANSI/TIA 222-H

Pole Data

Diameter:	20.000	in (flat to flat)
Thickness:	0.375	in
Yield (Fy):	35	ksi
# of Sides:	0	"0" IF Round
Strength (Fu):	60	ksi

Reactions

Moment, Mu:	7.4	ft-kips
Axial, Pu:	1.94	kips
Shear, Vu:	0.47	kips

Anchor Rod Data

Quantity:	4	(multiple of 4)	
Diameter:	1	in	
Rod Material:	F1554		
Strength (Fu):	125	ksi	
Yield (Fy):	105	ksi	
BC Diam. (in):	23.5	BC Override:	23.5

Plate Data

Width (in):	23.5	Width Override:	23.5
Thickness:	1	in	
Yield (Fy)	50	ksi	
Eff. Width:	12.34	in	

Center Hole: 20.125 in. diameter

Anchor Rod Results

(per 4.9.9)

Maximum Put:	3.41	Kips
Φt*Rnt:	56.81	Kips
Vu:	0.12	Kips
Φv*Rnv:	36.82	Kips
Tension Interaction Ratio:	0.00	
Maximum Puc:	4.26	Kips
Φc*Rnc:	63.63	Kips
Vu:	0.12	Kips
Φc*Rnvc:	19.09	Kips
Compression Interaction Ratio:	0.07	
Maximum Interaction Ratio:	**6.7%**	**Pass**

Base Plate Results

Base Plate (Mu/Z):	2.4	ksi	
Allowable Φ*Fy:	45	ksi	(per AISC)
Base Plate Interaction Ratio:	**5.4%**	**Pass**	

```
================================================================================

                     LPile for Windows, Version 2019-11.004

                Analysis of Individual Piles and Drilled Shafts
               Subjected to Lateral Loading Using the p-y Method
                          © 1985-2019 by Ensoft, Inc.
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================================================================================

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--------------------------------------------------------------------------------
                            Files Used for Analysis
--------------------------------------------------------------------------------

Path to file locations:
\Program Files (x86)\Ensoft\Lpile2019\files\

Name of input data file:
20-5050-EPG Opt. 6-RA.lp11d

Name of output report file:
20-5050-EPG Opt. 6-RA.lp11o

Name of plot output file:
20-5050-EPG Opt. 6-RA.lp11p

Name of runtime message file:
20-5050-EPG Opt. 6-RA.lp11r


--------------------------------------------------------------------------------
                           Date and Time of Analysis
--------------------------------------------------------------------------------

               Date:  September 14, 2020          Time:  12:04:12


--------------------------------------------------------------------------------
                                  Problem Title
--------------------------------------------------------------------------------

Site         : CRAN_JCKSN_6 (Node 280095)


Tower        : 25.33' Smart Stack


Prepared for : SMARTLINK, LLC


Job Number   : 20-5050-EPG Opt. 6 Revision A


Engineer     : KJT




--------------------------------------------------------------------------------
                         Program Options and Settings
--------------------------------------------------------------------------------

Computational Options:
 - Conventional Analysis
Engineering Units Used for Data Input and Computations:
 - US Customary System Units (pounds, feet, inches)

Analysis Control Options:
 - Maximum number of iterations allowed               =          999
 - Deflection tolerance for convergence               =   1.0000E-05 in
 - Maximum allowable deflection                       =     100.0000 in
 - Number of pile increments                          =          100

Loading Type and Number of Cycles of Loading:
 - Static loading specified

 - Use of p-y modification factors for p-y curves not selected
 - Analysis uses layering correction (Method of Georgiadis)
 - No distributed lateral loads are entered
 - Loading by lateral soil movements acting on pile not selected
```

- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined	=	1
Total length of pile	=	7.083 ft
Depth of ground surface below top of pile	=	0.0833 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	36.0000
2	7.083	36.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile

Length of section	=	7.083333 ft
Shaft Diameter	=	36.000000 in
Shear capacity of section	=	0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle	=	0.000 degrees
	=	0.000 radians
Pile Batter Angle	=	0.000 degrees
	=	0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 2 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer	=	0.083333 ft
Distance from top of pile to bottom of layer	=	4.083333 ft
Effective unit weight at top of layer	=	110.000000 pcf
Effective unit weight at bottom of layer	=	110.000000 pcf
Undrained cohesion at top of layer	=	14.400000 psf
Undrained cohesion at bottom of layer	=	14.400000 psf
Epsilon-50 at top of layer	=	0.100000
Epsilon-50 at bottom of layer	=	0.100000

Layer 2 is stiff clay without free water

Distance from top of pile to top of layer	=	4.083333 ft
Distance from top of pile to bottom of layer	=	20.083333 ft
Effective unit weight at top of layer	=	110.000000 pcf
Effective unit weight at bottom of layer	=	110.000000 pcf
Undrained cohesion at top of layer	=	1000.000000 psf
Undrained cohesion at bottom of layer	=	1000.000000 psf
Epsilon-50 at top of layer	=	0.010000
Epsilon-50 at bottom of layer	=	0.010000

(Depth of the lowest soil layer extends 13.000 ft below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Undrained Cohesion psf	E50 or krm
1	Soft Clay	0.08333 4.0833	110.0000 110.0000	14.4000 14.4000	0.10000 0.10000
2	Stiff Clay w/o Free Water	4.0833 20.0833	110.0000 110.0000	1000.0000 1000.0000	0.01000 0.01000

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length	Run Analysis
1	1	V = 626.666667 lbs	M = 118400. in-lbs	2587.	No	Yes
2	1	V = 160.000000 lbs	M = 30960. in-lbs	1620.	No	Yes

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	7.083333 ft
Shaft Diameter	=	36.000000 in
Concrete Cover Thickness (to edge of long. rebar)	=	3.375000 in
Number of Reinforcing Bars	=	12 bars
Yield Stress of Reinforcing Bars	=	60000. psi
Modulus of Elasticity of Reinforcing Bars	=	29000000. psi
Gross Area of Shaft	=	1018. sq. in.
Total Area of Reinforcing Steel	=	5.301438 sq. in.
Area Ratio of Steel Reinforcement	=	0.52 percent
Edge-to-Edge Bar Spacing	=	6.626343 in
Maximum Concrete Aggregate Size	=	0.750000 in
Ratio of Bar Spacing to Aggregate Size	=	8.84
Offset of Center of Rebar Cage from Center of Pile	=	0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = 0.85 Fc Ac + Fy As	=	4621.528 kips
Tensile Load for Cracking of Concrete	=	-486.917 kips
Nominal Axial Tensile Capacity	=	-318.086 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	0.750000	0.441786	14.250000	0.00000
2	0.750000	0.441786	12.340862	7.125000
3	0.750000	0.441786	7.125000	12.340862
4	0.750000	0.441786	0.00000	14.250000
5	0.750000	0.441786	-7.125000	12.340862
6	0.750000	0.441786	-12.340862	7.125000
7	0.750000	0.441786	-14.250000	0.00000
8	0.750000	0.441786	-12.340862	-7.125000
9	0.750000	0.441786	-7.125000	-12.340862
10	0.750000	0.441786	0.00000	-14.250000
11	0.750000	0.441786	7.125000	-12.340862
12	0.750000	0.441786	12.340862	-7.125000

NOTE: The positions of the above rebars were computed by LPile

Minimum spacing between any two bars not equal to zero = 6.626 inches
between bars 7 and 8.

Ratio of bar spacing to maximum aggregate size = 8.84

Concrete Properties:

Compressive Strength of Concrete	=	5000. psi
Modulus of Elasticity of Concrete	=	4030509. psi
Modulus of Rupture of Concrete	=	-530.330086 psi
Compression Strain at Peak Stress	=	0.002109
Tensile Strain at Fracture of Concrete	=	-0.0001150
Maximum Coarse Aggregate Size	=	0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	1.620
2	2.587

Summary of Results for Nominal Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	1.620	4880.612	0.00300000
2	2.587	4894.000	0.00300000

Note that the values of moment capacity in the table above are not
factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether
the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.70).

The above values should be multiplied by the appropriate strength reduction
factor to compute ultimate moment capacity according to ACI 318, Section
9.3.2.2 or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding
bending stiffnesses computed for common resistance factor values used for
reinforced concrete sections.

Axial Load No.	Resist. Factor for Moment	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in^2
1	0.65	4881.	1.053000	3172.	41389189.
2	0.65	4894.	1.681333	3181.	41526986.
1	0.75	4881.	1.134000	3660.	39716686.
2	0.75	4894.	1.810667	3671.	39865079.
1	0.90	4881.	1.215000	4393.	26233040.
2	0.90	4894.	1.940000	4405.	26317003.

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.08333	0.00	N.A.	No	0.00	1542.
2	4.0833	0.1700	No	No	1542.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals
for Layer n. Layering correction equivalent depths are computed only
for soil types with both shallow-depth and deep-depth expressions for
peak lateral load transfer. These soil types are soft and stiff clays,
non-liquefied sands, and cemented c-phi soil.

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	626.6667	M, in-lb	118400.	2587.	11.6840	-0.1720	-8452.	155109.
2	V, lb	160.0000	M, in-lb	30960.	1620.	0.02939	-4.34E-04	-1827.	36691.

Maximum pile-head deflection = 11.6840411662 inches
Maximum pile-head rotation = -0.1719639646 radians = -9.852809 deg.

The analysis ended normally.

1807.3.2.1 (2009 IBC, 2012 IBC, & 2015 IBC)

Moment (ft·k)	7.40	
Shear (k)	0.47	
Caisson diameter (ft)	3	
Caisson height above ground (ft)	0.083333	
Caisson height below ground (ft)	6.5	
Lateral soil pressure (lb/ft^2)	**115.38**	
Ground to application of force, h (ft)	15.83	
Applied lateral force, P (lb)	470	
Lateral soil bearing pressure, S_1 (lb/ft)	250.00	
Diameter, b (ft)	3	
A	1.47	$= (2.34P)/(S_1 b)$
Minimum depth of embedment, d (ft)	5.82	$= 0.5A[\ 1 + (\ 1 + (\ 4.36h\ /\ A\ )\ )^{1/2}\ ]$

EXHIBIT C(2)(O)(5)
TOWN OF JACKSON CRAN AT&T
SERVICE OBJECTIVES

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December 24, 2019

Whom It May Concern at the Town of Jackson, WY, Planning Department,

AT&T's proposed small cell CRAN wireless facilities proposed in the Town of Jackson are designed to enhance the capacity of AT&T network. AT&T's network is facing increasing traffic demand, especially during the summer tourist season. In addition, several nodes will also address coverage gaps.

List of nodes with primary purpose:

- CRAN_JCKSON_001, coverage
- CRAN_JCKSON_002, coverage and capacity
- CRAN_JCKSON_003, capacity
- CRAN_JCKSON_004, capacity and coverage
- CRAN_JCKSON_005, capacity
- CRAN_JCKSON_006, capacity and coverage
- CRAN_JCKSON_007, capacity
- CRAN_JCKSON_008, capacity
- CRAN_JCKSON_009, coverage
- CRAN_JCKSON_010, coverage
- CRAN_JCKSON_011, coverage
- CRAN_JCKSON_012, coverage and capacity
- CRAN_JCKSON_013, capacity
- CRAN_JCKSON_014, coverage and capacity
- CRAN_JCKSON_015, coverage and capacity

Maps below show proposed node locations, colors around nodes display effective service area where the node will provide significant improvement to the AT&T network. The bigger the bubble around the node, the bigger the impact on coverage.

If I can be of further assistance in this matter, please do not hesitate to contact me by phone at (208)317-0011 or by email, jr129e@att.com.

Best regards,

J. Shad Rydalch
AT&T Senior Specialist Radio Access Network Engineer
RF Safety for Rocky Mountain Region
2890 S 25th East, Idaho Falls, Idaho 83404
m 208.317.0011 | jr129e@att.com

Appendex: Maps

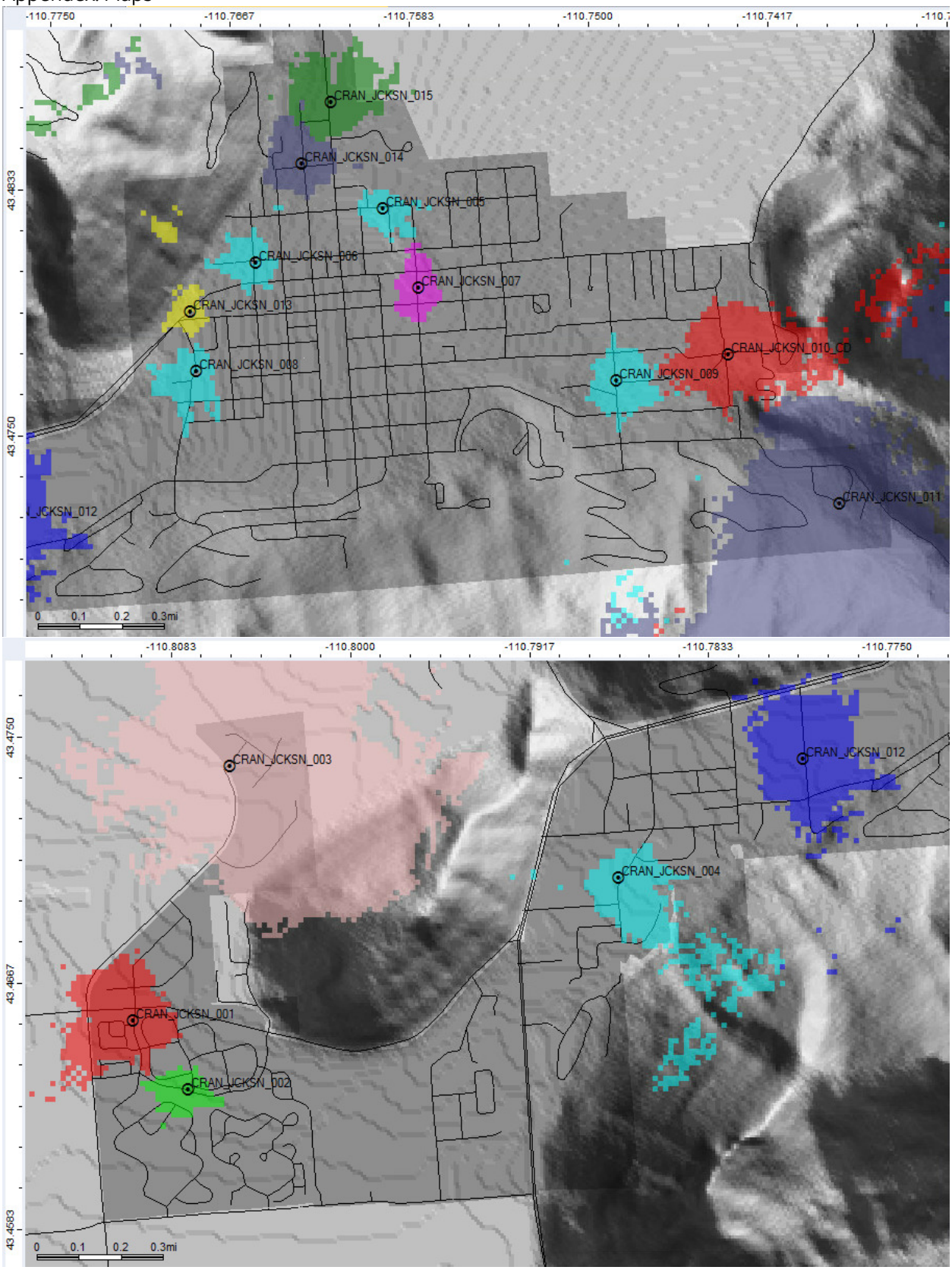


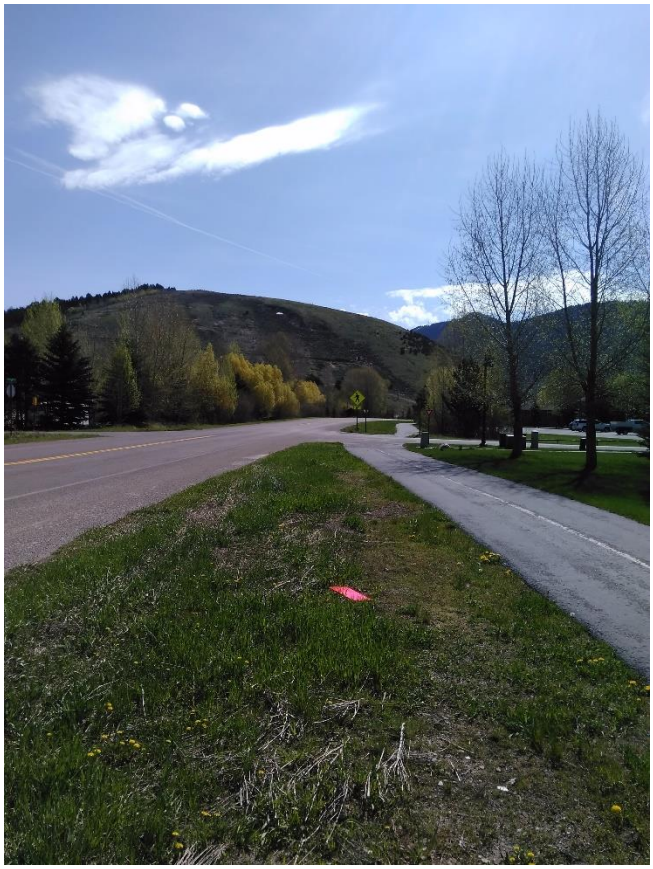
EXHIBIT C.2 (O)(3)
LIGHT REPLACEMENT
ALTERNATIVE ANALYSES

Alternative Candidate Selection Analyses for IDL07031F_R01

IDL07031F_R01 A – Is the primary candidate because it is closest to the AT&T wireless engineers desired location. It is also a pole replacement as that is a preference of the Town of Jackson and it has good clear line of site.

IDL07031F_R01 B – This candidate was not selected because of the Towns preference to replace existing poles and it was a little further away from AT&T's desired location.

IDL07031F_R01 C – This candidate was not selected because of the Towns preference to replace existing poles and it's the furthest away from AT&T's desired location.



Alternative Candidate Selection Analyses for IDL07034F_R03

IDL07034F_R03 A – It was the closest pole replacement to AT&T's desired target, and it has good clear line of site.

IDL07034F_R03 B – This candidate was not selected because of the Town's preference towards replacing existing poles and it was the furthest away from AT&T's desired location.

IDL07034F_R03 B – This candidate was not selected because of the Town's preference towards replacing existing pole.

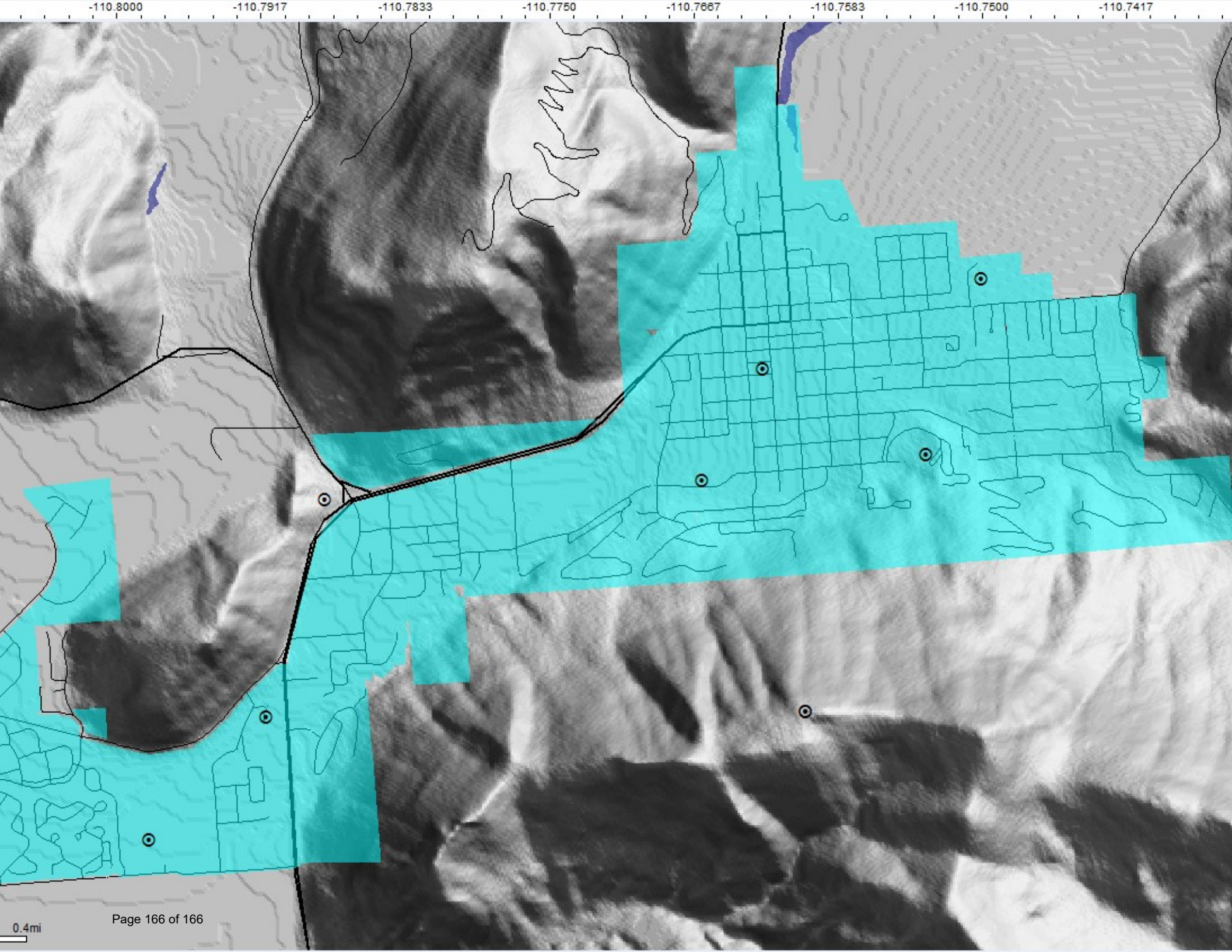
Alternative Candidate Selection Analyses for IDL07035F_R01

IDL07035F_R01 A - is the location of the primary candidate and it was selected after meeting with the town to discuss candidate options. This location allows us to replace an existing light and not add a new pole and still meet RF requirements with clear line of site.

IDL07035F_R01 B – This light replacement eliminated from the selection due to the fact it was so close to the entry way to the shopping center.

IDL07035F_R01 C – This alternative candidate was eliminated because of it close proximity to the restaurant and it didn't offer as good of line of sight for AT&T RF.

EXHIBIT C2(O)(4)
AT&T EXISTING MACRO SITES IN JACKSON.PNG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