



Staff Report for Administrative Approval

Weber County Planning Division

Synopsis

Application Information

Application Request: Consideration and action on a de-minimus amendment to a conditional use permit for a cell tower site located at 2367 N Rulon White Blvd.

Type of Decision: Administrative

Applicant: Dish Wireless/Utah Power and Light

Authorized Agent: Beth Bindner

File Number: CUP# 2021-16

Property Information

Approximate Address: 2367 N Rulon White Blvd, Ogden, UT, 84404

Project Area: 1250 square feet

Zoning: M-1

Existing Land Use: Cell site

Proposed Land Use: Cell site

Parcel ID: 19-060-0031

Township, Range, Section: Township 7 North, Range 2 West, Section 36 SW

Adjacent Land Use

| | |
|--------------------------|--------------------------------------|
| North: Commercial | South: 2350 North St |
| East: Commercial | West: Farr West City Boundary |

Staff Information

Report Presenter: Tammy Aydelotte
taydelotte@webercountyutah.gov
 801-399-8794

Report Reviewer: RG

Applicable Ordinances

- Title 101, Chapter 1, General Provisions, Definitions
- Title 104, Chapter 21, Manufacturing Zones (M-1) Zone
- Title 108, Chapter 4 Conditional Uses

Summary and Background

CUP 1996-11 was approved

The applicant is requesting approval of a de minimus amendment to the conditional use permit for a cell tower site located at 2367 N Rulon White Blvd with access from 2350 North Street. (see Area Map). At present, Vivint has an area of 2.26 acres that contain a tower, an equipment platform with a canopy, a generator, cable bridge, and a utility H-frame. The single proposed change encompasses the addition of two new antennas and an OVP (over voltage protection) unit on the existing tower. This application to amend the conditional use permit is considered to be de minimis as it has been determined that the changes are slight, inconsequential, and not in violation of any substantive provision of the Uniform Land Use Code of Weber County, Utah (LUC). Accordingly, this application may be approved by the planning director as outlined in section 108-4-3(2)(7).

Conditional use permits should be approved as long as any harmful impacts are mitigated. The LUC already specifies certain standards necessary for mitigation of harmful impact to which the proposal must adhere. The proposed application, with reasonable conditions, is able to meet these standards. The following is staff's evaluation of the request.

Analysis

General Plan: The request is in conformance with the South East Planning Area Master Plan by ensuring a better quality of communication services for residents of South East Weber County while not proposing an entirely new utility substation.

Zoning: The subject property is located within the RE-15 Zone. Public utility substations and radio/television towers are listed as a conditional use in the RE-15 zone. The proposed amendment does not include any additional structures on the ground level, will not expand the existing site plan, and will not modify the height of the existing cell tower.

Conditional Use Review: A review process has been outlined in LUC §108-4-3 to ensure compliance with the applicable ordinances and to mitigate anticipated detrimental effects. The following is an analysis of the application reviewed against the applicable conditional use standards:

- *Standards relating to safety for persons and property:* The proposal is not anticipated to cause any concerns of safety for persons and property.
- *Standards relating to infrastructure, amenities, and services:* The proposed amendment will improve communication services to residents in the area.
- *Standards relating to the environment:* The proposed amendment is not anticipated to negatively impact the environment, as the purpose for the amendment is to modify an existing structure. The height will remain the same, however, additional antennae will be installed to improve communication capabilities for local residents.
- *Standards relating to the current qualities and characteristics of the surrounding area and compliance with the intent of the general plan:* The proposal is not for an additional structure, but to modify an existing structure, thereby leveraging the existing site facilities to provide enhanced services to the area. This leveraging of existing infrastructure helps to preserve the characteristics of the surrounding area.

Review Agencies: Weber Fire District and Engineering have approved of the proposed conditional use permit amendment without conditions.

Staff Recommendation

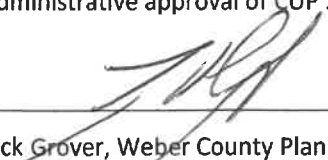
The Planning Division recommends approval of file# CUP 2021-16. This recommendation for approval is subject to all review agency requirements.

This recommendation is based on the following findings:

1. The proposed use conforms to the South East Planning Area Master Plan.
2. The proposed use will not be detrimental to public health, safety, or welfare.
3. The proposed use complies with applicable County ordinances.
4. The proposed use, if conditions are imposed, will not deteriorate the environment or create an unsightly improvement so as to negatively impact surrounding properties and uses.

Administrative approval

Administrative approval of CUP 2021-18 is hereby given based upon the conditions and findings outline in this staff report.



Rick Grover, Weber County Planning Director

Dated the 27th day of OCTOBER, 2021

Exhibits

- A. Application
- B. Site Plan & Structural Dimensions

Area Map



Exhibit A - Application

UTAH POWER & LIGHT COMPANY-UTAH POWER & LIGHT COMPANY-Conditional Use Permits

[+ Add Follower](#)[/ Change Status](#)[/ Edit Project](#)

Address: 2367 N. Rulon White Blvd, Pleasant Ville UT, UT, 84404
Maps: [Google Maps](#)
Project Type: Conditional Use Permits
Sub Type: Conditional Use Permits
Created By: [Beth Bindner](#)
Created On: 8/19/2021
Project Status: Accepted
Status Date: 8/25/2021
File Number: CUP 2021-16
Project Manager: [Tammy Aydelotte](#)

[Application](#)[Documents 2](#)[Comments 0](#)[Reviews 2](#)[Followers 5](#)[Status](#)[Notifications](#)[Payments 3](#)

Application

[+ Add Building](#)[+ Add Parcel](#)[+ Add a Contractor](#)[/ Edit Application](#)[Print](#)

Project Description: Collocation of existing cell tower, adding antennas and radios. There will be no change to the tower height or to the tower compound footprint.

Property Address: 2367 N. Rulon White Blvd
Pleasant Ville UT, UT, 84404

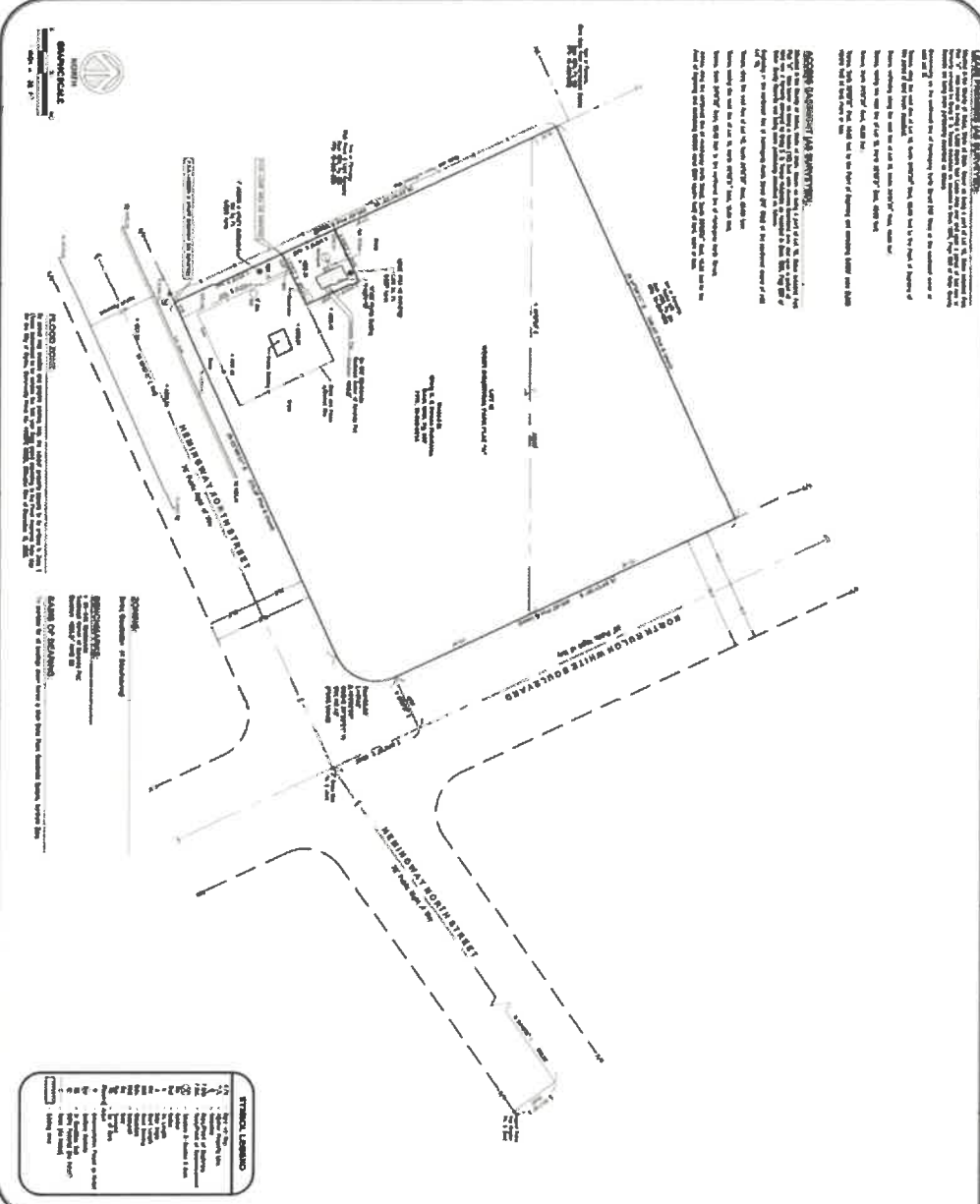
Property Owner: UTAH POWER & LIGHT COMPANY UTAH POWER & LIGHT COMPANY
949-447-2305

Representative: Beth Bindner
208-890-8729
beth.bindner@powderriverdev.com

Accessory Dwelling Unit: False
Current Zoning: M-1
Subdivision Name: na
Number of Lots: na
Lot Number: na
Lot Size: na
Frontage: na
Culinary Water Authority:
Secondary Water Provider:
Sanitary Sewer Authority:
Nearest Hydrant Address: 2382 N. Rulon White Blvd, Pleasant View, UT 84414
Signed By: Representative, Beth Bindner

Parcel Number

[✖ Remove](#) 19080031 - [County Map](#)



LEGAL DESCRIPTION OF THE SURVEY:
 The following is a legal description of the land shown on this plan, as surveyed by Hillman Surveying, Inc. on 11/11/2010. The land is located in the City of Ogden, Utah, and is bounded by the following:
 North: 100.00 feet of the 100.00 foot wide easement for the Herringwood Boulevard Right-of-Way, as shown on the plan.
 East: 100.00 feet of the 100.00 foot wide easement for the Herringwood Boulevard Right-of-Way, as shown on the plan.
 South: 100.00 feet of the 100.00 foot wide easement for the Herringwood Boulevard Right-of-Way, as shown on the plan.
 West: 100.00 feet of the 100.00 foot wide easement for the Herringwood Boulevard Right-of-Way, as shown on the plan.
 The total area of the land is 10,000.00 square feet, or 0.2309 acres.

ASSUMPTIONS AND NOTES:
 This survey was conducted under the following assumptions and conditions:
 1. All existing easements and encroachments were shown on the plan.
 2. All utility lines were shown on the plan.
 3. The survey was conducted in accordance with the Utah Surveying Act.
 4. The survey was conducted using the following methods:
 - Total Station
 - GPS
 - Leveling
 - Angle and Distance Measurements
 5. The survey was conducted on 11/11/2010.
 6. The survey was conducted by Hillman Surveying, Inc.
 7. The survey was conducted by the following personnel:
 - Surveyor: [Name]
 - Assistant: [Name]
 - Witness: [Name]



**TOWER SURVEY
 PREPARED FOR:
 AMERICAN TOWER**

AS BUILT SURVEY
 34th St. Bldg. 31000
 2387 N. RALPH WHITE BOULEVARD
 City of Ogden
 County of Weber
 State of Utah

HILLMAN SURVEYING, Inc.
 1000 S. 1000 E.
 OGDEN, UT 84404
 (801) 466-1111
 www.hillmansurveying.com

UTAH SURVEYOR
 No. 12345
 State of Utah

GENERAL NOTES:
 1. This survey was conducted in accordance with the Utah Surveying Act.
 2. The survey was conducted using the following methods:
 - Total Station
 - GPS
 - Leveling
 - Angle and Distance Measurements
 3. The survey was conducted on 11/11/2010.
 4. The survey was conducted by Hillman Surveying, Inc.
 5. The survey was conducted by the following personnel:
 - Surveyor: [Name]
 - Assistant: [Name]
 - Witness: [Name]

| NO. | DATE | DESCRIPTION |
|-----|------------|---------------|
| 1 | 11/11/2010 | FIELD SURVEY |
| 2 | 11/11/2010 | OFFICE SURVEY |

PROJECT NUMBER
 4009-25655-C

FOR THE CLIENT:
 PROJECT INFORMATION
 SLSIC0133C
 NORTH OGDEN
 OGDEN, UT 84404

SHEET TITLE
 EXISTING SURVEY

SHEET NUMBER
 A-0

| NO. | DATE | DESCRIPTION |
|-----|------------|---------------|
| 1 | 11/11/2010 | FIELD SURVEY |
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 OGDEN, UT 84404

SHEET TITLE
 EXISTING SURVEY

SHEET NUMBER
 A-0

**AMERICAN TOWER
 CORPORATION**

INFINIGY
 ZERO TO INFINIGY
 THE SOLUTIONS ARE ENDLESS

dish
 Wireless

5701 SOUTH MAIN, FT. COCK
 LITTLETON, CO 80120

CURTAIN SLOPE

IN STATE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|---------------------------|--------------------------------|---------------------|------------------------|---------------------|--------------------|-------------|---|----------------------|---|------------|----------|-----------------|---------------------|--------------|-------------------------|--|----------------------|--------------------|--------|--------------|-------------------|---------------|---|----------------------|-------------------|-------------------------|---------------------------------------|
| <p>FUJITSU TRIPLE BAND TA08023-8805</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Dimensions (Overall)</td><td>14.81x13.7x7.6"</td></tr> <tr><td>Weight</td><td>7.66 lbs</td></tr> <tr><td>Connection Type</td><td>4.5-10 RF Connector</td></tr> <tr><td>Power Supply</td><td>DC -48V-30W</td></tr> </table> | Dimensions (Overall) | 14.81x13.7x7.6" | Weight | 7.66 lbs | Connection Type | 4.5-10 RF Connector | Power Supply | DC -48V-30W | <p>FUJITSU DUAL BAND TA08023-8804</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Dimensions (Overall)</td><td>14.81x13.7x7.6"</td></tr> <tr><td>Weight</td><td>4.54 lbs</td></tr> <tr><td>Connection Type</td><td>4.5-10 RF Connector</td></tr> <tr><td>Power Supply</td><td>DC -48V-30W</td></tr> </table> | Dimensions (Overall) | 14.81x13.7x7.6" | Weight | 4.54 lbs | Connection Type | 4.5-10 RF Connector | Power Supply | DC -48V-30W | <p>COMMSCOPE BACK-TO-BACK MOUNT RR-F12</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Dimensions (Overall)</td><td>15.41x14.61x14.61"</td></tr> <tr><td>Weight</td><td>28.22 lb</td></tr> <tr><td>Mounting Quantity</td><td>2</td></tr> </table> | Dimensions (Overall) | 15.41x14.61x14.61" | Weight | 28.22 lb | Mounting Quantity | 2 | <p>COMMSCOPE XP-2040 CROSSOVER PLATE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Dimensions (Overall)</td><td>10.11x7.12"</td></tr> <tr><td>Weight</td><td>11.083 lbs</td></tr> </table> | Dimensions (Overall) | 10.11x7.12" | Weight | 11.083 lbs |
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| Weight | 11.083 lbs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RRH DETAIL | RRH DETAIL | REMOTE RADIO MOUNT DETAIL | SURGE SUPPRESSION DETAIL (OVP) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO SCALE | NO SCALE | NO SCALE | NO SCALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>COMMSCOPE FTYV-65A-R2-V1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Dimensions (Overall)</td><td>13.25x10.25x10.25"</td></tr> <tr><td>Weight</td><td>36.11 lbs (16.4 kg)</td></tr> <tr><td>RF Connector Interface</td><td>4.5-10 Female</td></tr> <tr><td>Weight With Mounts</td><td>72.2 lbs</td></tr> <tr><td>Mount With Mounts</td><td>10.648 lbs</td></tr> </table> | Dimensions (Overall) | 13.25x10.25x10.25" | Weight | 36.11 lbs (16.4 kg) | RF Connector Interface | 4.5-10 Female | Weight With Mounts | 72.2 lbs | Mount With Mounts | 10.648 lbs | <p>COMMSCOPE LC-PK8-D5H</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Face Width</td><td>8"</td></tr> <tr><td>Weight</td><td>1.37348 lbs</td></tr> <tr><td>Mounting</td><td>Mount 1/8" TO 3/8" O.D.</td></tr> </table> | Face Width | 8" | Weight | 1.37348 lbs | Mounting | Mount 1/8" TO 3/8" O.D. | <p>LMA 91900318 MOUNTING BRACKET</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Width</td><td>8.2" (210mm)</td></tr> <tr><td>Depth</td><td>7.5" (190mm)</td></tr> <tr><td>Height</td><td>11.2" (285mm)</td></tr> <tr><td>Total Weight (With Mounts)</td><td>18.8 LBS (8.5 kg)</td></tr> <tr><td>Mounting Hardware</td><td>CALL FOR SPECIFIC ITEMS</td></tr> </table> | Width | 8.2" (210mm) | Depth | 7.5" (190mm) | Height | 11.2" (285mm) | Total Weight (With Mounts) | 18.8 LBS (8.5 kg) | Mounting Hardware | CALL FOR SPECIFIC ITEMS | <p>ANTENNA PLATFORM DETAIL</p> |
| Dimensions (Overall) | 13.25x10.25x10.25" | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RF Connector Interface | 4.5-10 Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight With Mounts | 72.2 lbs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount With Mounts | 10.648 lbs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Face Width | 8" | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 1.37348 lbs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mounting | Mount 1/8" TO 3/8" O.D. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Width | 8.2" (210mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Total Weight (With Mounts) | 18.8 LBS (8.5 kg) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mounting Hardware | CALL FOR SPECIFIC ITEMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RRH DETAIL | ANTENNA DETAIL | ANTENNA MOUNTING DETAIL | ANTENNA PLATFORM DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO SCALE | NO SCALE | NO SCALE | NO SCALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | 9 | NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | |

PRELIMINARY DOCUMENTS

| REV | DATE | DESCRIPTION |
|-----|------------|------------------|
| 1 | 07/24/2017 | ISSUE FOR REVIEW |
| 2 | | |

DATE: 07/24/2017
DRAWN BY: [REDACTED]
CHECKED BY: [REDACTED]

INFINIGY
SEND TO INFINIGY
THE OFFICE OF THE DIRECTOR
OF INFORMATION SECURITY

ARMED AND DANGEROUS

dish
wireless

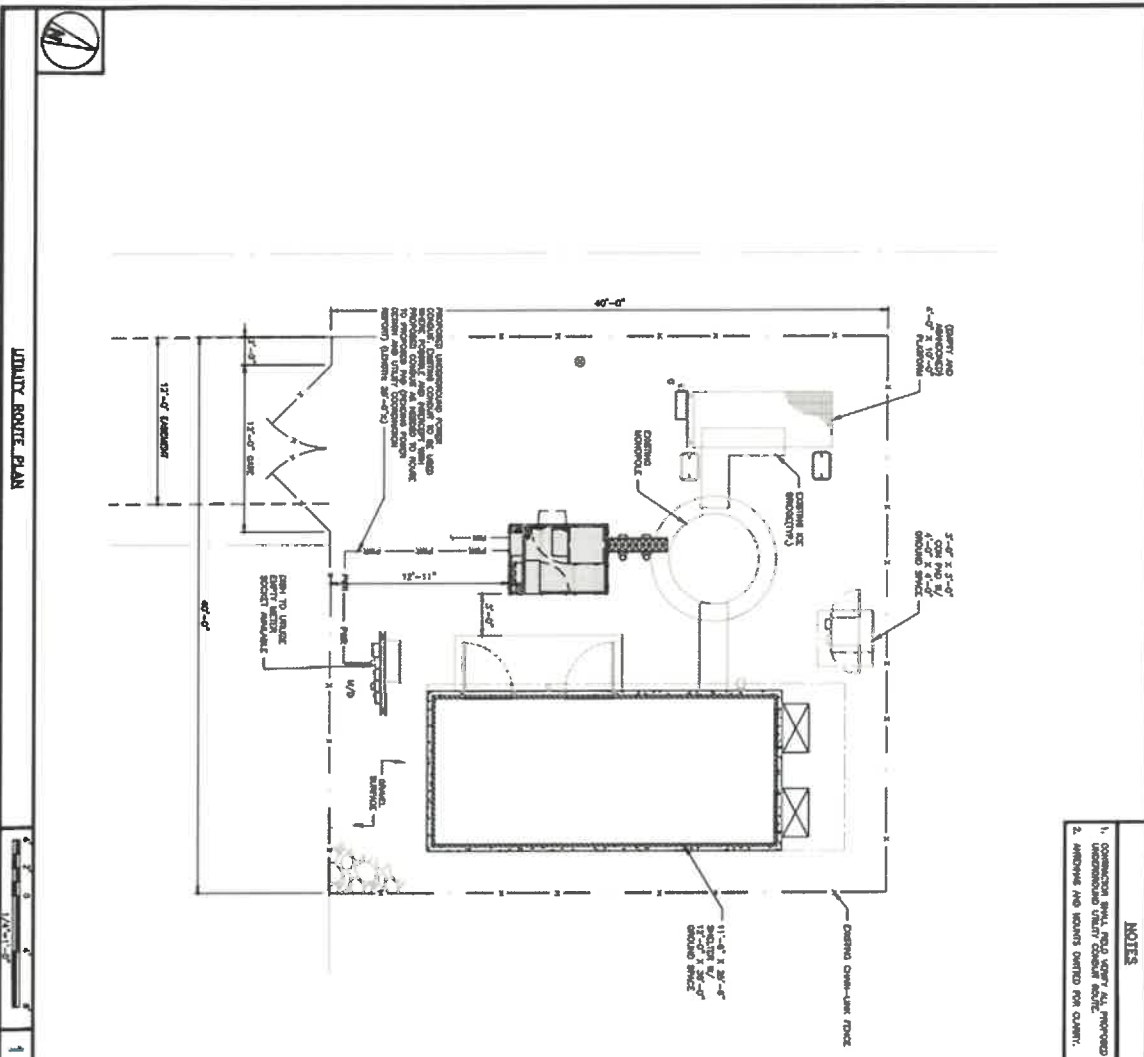
5201 SOUTH MAIN, FT. COCKE
LITTLETON, CO 80120

PROJECT NUMBER: 4008-25655-C

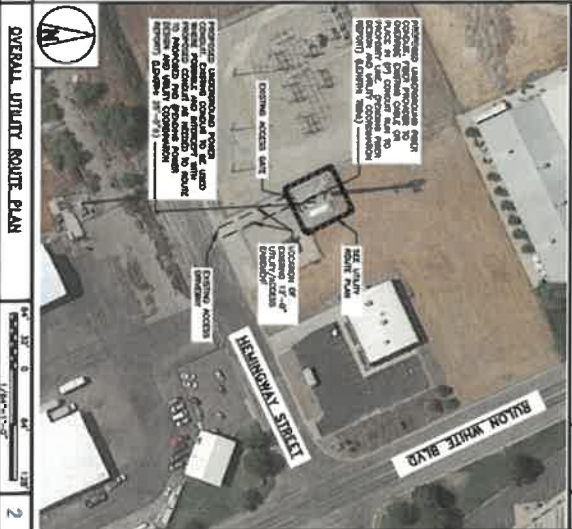
FOR: [REDACTED]
SIS/LC00133C
NORTH OGDEN
3587 N. RALPH WHITE BLVD
OGDEN, UT 84404

SHEET TITLE: EQUIPMENT DETAILS

SHEET NUMBER: **A-6**



- NOTES**
1. CONTRACTOR SHALL PROVIDE ALL PROVIDED MATERIALS AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
 2. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.



- ELECTRICAL NOTES**
1. CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS FROM THE DRAWINGS AND FIELD SURVEY.
 2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES.
 3. LOCATION OF EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL BE APPROVED BY THE ENGINEER.
 4. ALL ELECTRICAL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 5. CONTRACTOR SHALL PROVIDE ALL MATERIALS, CONDUITS AND CABLES AS REQUIRED FOR A COMPLETE SYSTEM.
 6. CONTRACTOR SHALL PROVIDE ALL STRAP BARS AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.
 7. CONTRACTOR SHALL PROVIDE ALL CABLE SUPPORTS FOR ALL CABLES INSTALLED.
 8. ALL ELECTRICAL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 9. ALL ELECTRICAL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 10. ALL NEW MATERIAL SHALL HAVE A UL LISTED.
 11. PANEL SCHEDULE LISTING AND OTHER APPROVEDS SHALL BE PROVIDED FOR THE CONTRACTOR.
 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS AND SITE WORK.
 13. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

PRELIMINARY DOCUMENTS

| REV | DATE | DESCRIPTION |
|-----|------------|-------------------|
| 1 | 08/03/2021 | ISSUED FOR PERMIT |

DATE: 08/03/2021

BY: [Signature]

PROJECT INFORMATION

POST SYSTEMS LLC
 4008-25555-C
 2387 N. RALDON WHITE BLVD
 OGDEN, UT 84404

CLIENT INFORMATION

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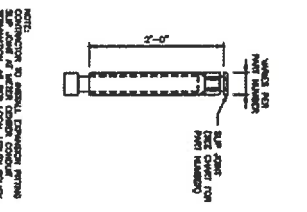
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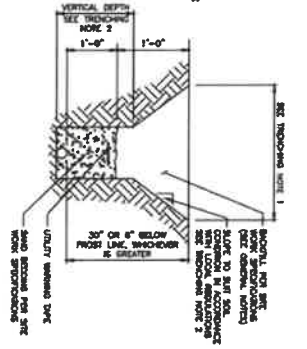
POST SYSTEMS LLC
 4008-25555-C
 2387 N. RALDON WHITE BLVD
 OGDEN, UT 84404

| CONDUIT DIA | MIN. BENDING RADIUS | REQ. DIA. ON | INSTR. DIA. |
|-------------|---------------------|--------------|-------------|
| EM40 | 1/2" | 3/8" | 1/2" |
| EM40 | 3/4" | 1/2" | 3/4" |
| EM40 | 1" | 3/4" | 1" |
| EM40 | 1 1/4" | 1" | 1 1/4" |
| EM40 | 1 1/2" | 1 1/4" | 1 1/2" |
| EM40 | 2" | 1 1/2" | 2" |
| EM40 | 2 1/2" | 2" | 2 1/2" |
| EM40 | 3" | 2 1/2" | 3" |
| EM40 | 3 1/2" | 3" | 3 1/2" |
| EM40 | 4" | 3 1/2" | 4" |
| EM40 | 5" | 4" | 5" |
| EM40 | 6" | 5" | 6" |



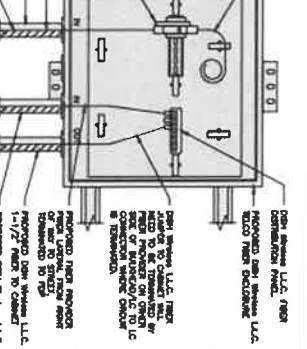
INSTALLATION NOTES:

- CONDUIT SHALL BE INSTALLED VERTICALLY TO MINIMIZE THE RISK OF SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE SUPPORTED AT REGULAR INTERVALS TO PREVENT SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.
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TYPICAL UNDERGROUND TRENCH DETAIL:

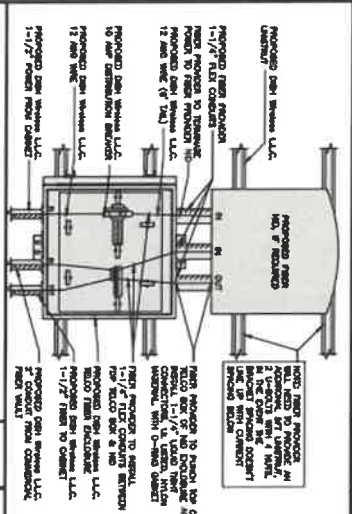
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DARK TELCO BOX - INTERIOR WIRING LAYOUT:

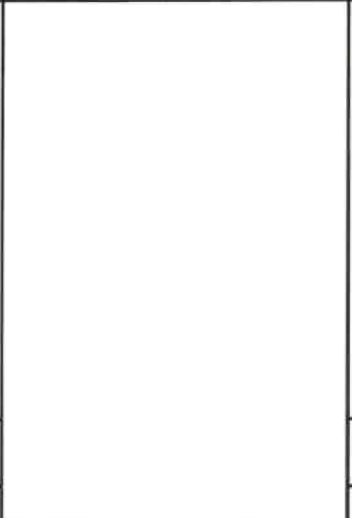
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- CONDUIT SHALL BE SUPPORTED AT REGULAR INTERVALS TO PREVENT SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.

EXPANSION JOINT DETAIL



EXPANSION JOINT DETAIL:

- CONDUIT SHALL BE INSTALLED VERTICALLY TO MINIMIZE THE RISK OF SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE SUPPORTED AT REGULAR INTERVALS TO PREVENT SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.



LIGHT TELCO BOX - INTERIOR WIRING LAYOUT (OPTIONAL):

- CONDUIT SHALL BE INSTALLED VERTICALLY TO MINIMIZE THE RISK OF SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE SUPPORTED AT REGULAR INTERVALS TO PREVENT SWAYING AND TO MAINTAIN THE CONDUIT IN A VERTICAL POSITION.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.
- CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 1/2" CLEARANCE FROM ALL SURFACES TO WHICH IT IS INSTALLED.

| NO. OF SHEETS | SHEET NO. | TOTAL SHEETS | NO. OF SHEETS | SHEET NO. | TOTAL SHEETS |
|---------------|-----------|--------------|---------------|-----------|--------------|
| 1 | 1 | 1 | 2 | 2 | 2 |
| 4 | 4 | 4 | 5 | 5 | 5 |
| 7 | 7 | 7 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 |

PRELIMINARY DOCUMENTS

DATE: 07/21/2021

PROJECT: 4008-25545-C

CLIENT: SLS/CD0133C

LOCATION: NORTH OGDEN

ADDRESS: 2387 N. RUDON WHITE BLVD

CITY: OGDEN, UT 84404

SHEET TITLE: ELECTRICAL DETAILS

SHEET NUMBER: E-2

INFINIGY

SEEKING TO INFINIGY

AMERICAN COMMUNICATIONS

5910 SOUTH MAIN ST. SUITE 100

LITTLETON, CO 80120

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H-FRAME GROUNDING DETAIL

NO SCALE 4 1

NOTES

GROUNDING POINT LIMITED FOR CLAMPT

TRANSFORMING GROUND DETAIL

NO SCALE 4

NOTES

GROUNDING POINT LIMITED FOR CLAMPT

TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE

NO SCALE 5

NOTES

1/2\"/>

TYPICAL GROUND BOND TRENCH

NO SCALE 6

NOTES

1/2\"/>

OUTDOOR CABINET GROUNDING

NO SCALE 3

NOTES

1/2\"/>

TYPICAL GPS UNIT GROUNDING

NO SCALE 2

NOTES

1/2\"/>

PRELIMINARY DOCUMENTS

| REV | DATE | DESCRIPTION |
|-----|------------|-------------------|
| 1 | 07/27/2021 | ISSUED FOR REVIEW |
| 2 | | |

AMERICAN TOWER CORPORATION

INFINIGY

FIELD I/O INFINIGY

15000 E. WASHINGTON AVE. SUITE 100

DENVER, CO 80231

ADP PROJECT NUMBER

4008-25555-C

LOCAL OFFICE

4008-25555-C

3151 CD01 33C

NORTH GORDEN

3387 N. NOLAN WHITE BLVD

GORDEN, UT 84404

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

G-2

dish wireless

5701 SOUTH SMITH ST. DOME

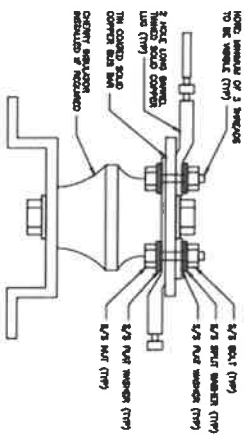
LITTLETON, CO 80120

1. EXPOSED WELD TO TOP OF WIRE SHALL BE WELD TO BE GRIND TO AROUND WELD. FROM CONNECTION TO BOND BONDING BAR AND PROVIDE MINIMUM DISTANCE.
2. ALL EXPOSED WELDING SHALL BE STAINLESS STEEL 1/8" THICKNESS OF LAMINA IN NON-CORROSION CONTACT WITH WIRE.
3. EXPOSED WELD TO BOND SHALL COVER ALL SURFACES WITH AN ANTI-CORROSION COMPOUND TO PROTECT BOND.
4. DO NOT APPLY CONCRETE TO BOND OR TO WIRE AND WIRE SHALL BE COVERED BY CONCRETE TO PROTECT BOND.
5. ALL WELDED JOINTS SHALL BE FLARED ON THE FRONT SIDE OF THE BOND BAR AND BOND ON THE BACK SIDE.
6. ALL OVERLAP JOINTS AND BONDWIRE TO BE SMOOTH AND INSTALLED BY CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL BOND BAR AS REQUIRED.
8. CHECK THE WIRE INSULATION REMOVAL IS WITHIN 1/8" OF THE BOND BAR ENDING.

TYPICAL GROUNDING BOLTS

NO SCALE

1



LUGS DETAIL

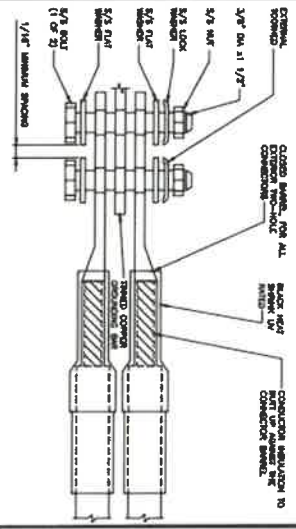
NO SCALE

4

TYPICAL EXTERIOR TWO HOLE LUG

NO SCALE

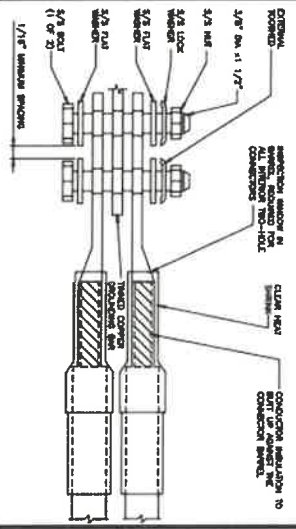
2



TYPICAL INTERIOR TWO HOLE LUG

NO SCALE

3



NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

501 SOUTH MAIN ST. SUITE 200
SALT LAKE CITY, UT 84143

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10/11/2011 11:11:11 AM

DATE: 10/11/2011
DESCRIPTION: GROUNDING DETAILS

REV: 1
BY: JMM
DATE: 10/11/2011
DESCRIPTION: GROUNDING DETAILS

REV: 2
BY: JMM
DATE: 10/11/2011
DESCRIPTION: GROUNDING DETAILS

PROJECT INFORMATION:
SLSLCO0133C
NORTH OGDEN
2387 N. RIMLOW WHITE BLVD
OGDEN, UT 84404

PROJECT NUMBER:
4008-25855-C


PROJECT INFORMATION:
SLSLCO0133C
NORTH OGDEN
2387 N. RIMLOW WHITE BLVD
OGDEN, UT 84404

SHEET TITLE:
GROUNDING DETAILS


SHEET NUMBER:
G-3

GROUNDING NOTES:

1. ALL GROUND ELECTRIC SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER DEVICES) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRIC SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUFFICIENT GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPER STRUCTURING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND WELD ELECTRICALLY CONTINUOUS WITH LISTED GROUND FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE. ALL APPROVED GROUNDING THE CONDUIT CLAMP.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRAPPED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CONDUITS TO THE EQUIPMENT.
6. EACH CLAMPT FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPERIORAL EQUIPMENT GROUND WIRE, #6 STRANDED COPPER OR LARGER FOR WOODEN BARS. #2 BARE SOLID TINNED COPPER FOR OUTDOOR BARS. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE FORBIDDEN.
7. ALL EXTENSION GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
8. ALUMINUM CONDUIT OR COPPER GALV STEEL CONDUIT SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
11. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING WORN PRESS CHAMPS.
12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
13. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
14. APPROVED ANTI-OXIDANT COMPOUNDS (i.e. CONDUCTIVE OIL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
15. ALL EXTENSION GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
16. REGULATORS, ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
17. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
18. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC STRUCTURES THAT FORM A PART OF THE CONDUIT, SUCH AS METALLIC CONDUIT, METAL SUPPORT CLIPS OR STRAPS. NON-METALLIC MATERIAL, SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METALLIC CONDUIT IS NECESSARY, NON-METALLIC CONDUIT PROVIDED BY LOCAL CODES. THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
19. ALL GROUNDS THAT TRAVEL FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" DIAMETER RACEWAY. ALL GROUNDS THAT TRAVEL BELOW GRADE TO WITHIN 5' TO 6' OF GROUND-LEVEL TRANSMISSION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SUITABLE GASKET (VAD INVESTIGATED) GROUND STRAPPED DEVICE AS BIDD.
20. BALANCES WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE THE GROUNDING CONDUCTORS THROUGH TOWER, AND WITH TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM. THE GROUNDING CONDUCTORS SHALL NOT BE SEALED AT THE TOWER. THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMN, LIGHTNING PROTECTION SYSTEM AND BUILDING MAIN WATER LINE (TERRAZOS OR HORIZONTAL METAL PIPING ONLY), DO NOT ATTACH GROUNDING TO FINE SPREADER STEEL PILES.



5701 SOUTH DAVIS ST. SUITE 200
LITTLETON, CO 80120



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IF IN A SITUATION OF LOW BID PERmittance, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE STATE OF UTAH.

| DATE | BY | DESCRIPTION |
|------------|-----|-----------------|
| 07/23/2021 | BOH | ISSUED FOR BIDD |

OWNER: BOH SHOVEL L.L.C.
 DRAWN BY: BOH
 CHECKED BY: BOH
 APPROVED BY: BOH

REV# REV # DATE DESCRIPTION

1 07/23/2021 ISSUED FOR BIDD

2

PRELIMINARY DOCUMENTS

SUBMITTALS

REV DATE DESCRIPTION

1 07/23/2021 ISSUED FOR BIDD

2

A/E PROJECT NUMBER: 4008-25555-C

BOH SHOVEL L.L.C.
 3157 N. RALPH WHITE BLVD
 S15LC00133C
 NORTH OGDEN
 OGDEN, UT 84404

SHEET TITLE: GENERAL NOTES

SHEET NUMBER: GN4