| Tom McGann       AUGUST 8, 2017 AT 6:45 PM         Commissioners       CORDOVA CENTER COMMUNITY ROOMS A & B         Sout Pegau       AGENDA         John Baenen       AGENDA         Allen Roemhildt       AGENDA         Mark Frohnapfel       Heath Kocan         Heath Kocan       Nancy Bird         Citv Planner       Samantha Greenwood         Assistant Planner       Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird         Lif Stavig       3. APPROVAL OF AGENDA (voice vote)         4. APPROVAL OF CONSENT CALENDAR (voice vote)       Page 2         b. Minutes of July 11, 2017 Public Hearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Scott Pegau<br>John Baenen<br>Allen Reemhildt<br>Mark Frohnapfel<br>Heath Kocan<br>Nancy Bird       AGENDA         City Planner<br>Samantha Greenwood<br>Assistant Planner<br>Leif Stavig       1. CALL TO ORDER         3. APPROVAL CALL<br>Chair Tom McGann, Commissioners Scott Pegau, John Baenen, Allen<br>Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird         4. APPROVAL OF CONSENT CALENDAR (voice vote)         a. Minutes of July 11, 2017 Public Hearing.         Page 2         b. Minutes of July 11, 2017 Regular Meeting         c. Record excused absence for John Baenen and unexcused absence for Heath Kocan from the July<br>11, 2017 Regular Meeting         5. DISCLOSURES OF CONFLICTS OF INTEREST         6. CORRESPONDENCE         7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS         a. Guest Speakers         b. Audience comments regarding agenda items (3 minutes per speaker)         8. PLANNER'S REPORT         Page 5         9. NEW/MISCELLANEOUS BUSINESS         a. CTC Telecommunication Tower - Conditional Use Permit.         Page 6         b. Resolution 17-02 – Capital Improvement List                       |
| John Baenen<br>Allen Roemhildt<br>Mark Frohnapfel<br>Heath Kocan<br>Nancy Bird       AGENDA         City Planner<br>Samantha Greenwood<br>Assistant Planner<br>Lef Stavig       1. CALL TO ORDER         2. ROLL CALL<br>Chair Tom McGann, Commissioners Scott Pegau, John Baenen, Allen<br>Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird       3. APPROVAL OF AGENDA (voice vote)         4. APPROVAL OF CONSENT CALENDAR (voice vote)       3. APPROVAL OF AGENDA (voice vote)       Page 2         b. Minutes of July 11, 2017 Regular Meeting       Page 3         c. Record excused absence for John Baenen and unexcused absence for Heath Kocan from the July<br>11, 2017 Regular Meeting       Page 3         5. DISCLOSURES OF CONFLICTS OF INTEREST       6. CORRESPONDENCE         7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS<br>a. Guest Speakers<br>b. Audience comments regarding agenda items (3 minutes per speaker)       Page 5         8. PLANNER'S REPORT       Page 5         9. NEW/MISCELLANEOUS BUSINESS<br>a. CTC Telecommunication Tower - Conditional Use Permit.       Page 6<br>b. Resolution 17-02 - Capital Improvement List. |
| Mark Frohnapfel<br>Heath Kocan<br>Nancy Bird       1. CALL TO ORDER         Samantha Greenwood       2. ROLL CALL<br>Chair Tom McGann, Commissioners Scott Pegau, John Baenen, Allen<br>Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird         Asistant Planner<br>Leif Stavig       3. APPROVAL OF AGENDA (voice vote)         4. APPROVAL OF CONSENT CALENDAR (voice vote)       9. Minutes of July 11, 2017 Public Hearing.         Page 2       b. Minutes of July 11, 2017 Regular Meeting.         Page 3       c. Record excused absence for John Baenen and unexcused absence for Heath Kocan from the July<br>11, 2017 Regular Meeting         5. DISCLOSURES OF CONFLICTS OF INTEREST         6. CORRESPONDENCE         7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS         a. Guest Speakers         b. Audience comments regarding agenda items (3 minutes per speaker)         8. PLANNER'S REPORT         Page 5         9. NEW/MISCELLANEOUS BUSINESS         a. CTC Telecommunication Tower - Conditional Use Permit.         Page 6         b. Resolution 17-02 – Capital Improvement List                                                    |
| Heath Kocan<br>Nancy Bird       1. CALL TO ORDER         City Planner<br>Samantha Greenwood<br>Assistant Planner<br>Leif Stavig       1. CALL TO ORDER         2. ROLL CALL<br>Chair Tom McGann, Commissioners Scott Pegau, John Baenen, Allen<br>Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird       1. CALENDAR (voice vote)         3. APPROVAL OF CONSENT CALENDAR (voice vote)       3. APPROVAL OF CONSENT CALENDAR (voice vote)       Page 2         4. Minutes of July 11, 2017 Public Hearing.       Page 3         c. Record excused absence for John Baenen and unexcused absence for Heath Kocan from the July<br>11, 2017 Regular Meeting       Page 3         5. DISCLOSURES OF CONFLICTS OF INTEREST       6         6. CORRESPONDENCE       7         7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS       a. Guest Speakers         b. Audience comments regarding agenda items (3 minutes per speaker)       Page 5         9. NEW/MISCELLANEOUS BUSINESS       a. CTC Telecommunication Tower - Conditional Use Permit.       Page 6         b. Resolution 17-02 – Capital Improvement List.       Page 44                                    |
| Nancy Bird       1. CALL TO OKDER         City Planner       2. ROLL CALL         Samantha Greenwood       Assistant Planner         Leif Stavig       2. ROLL CALL         Chair Tom McGann, Commissioners Scott Pegau, John Baenen, Allen         Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird         3. APPROVAL OF AGENDA (voice vote)         4. APPROVAL OF CONSENT CALENDAR (voice vote)         a. Minutes of July 11, 2017 Public Hearing.         b. Minutes of July 11, 2017 Regular Meeting         c. Record excused absence for John Baenen and unexcused absence for Heath Kocan from the July         11, 2017 Regular Meeting         5. DISCLOSURES OF CONFLICTS OF INTEREST         6. CORRESPONDENCE         7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS         a. Guest Speakers         b. Audience comments regarding agenda items (3 minutes per speaker)         8. PLANNER'S REPORT         Page 5         9. NEW/MISCELLANEOUS BUSINESS         a. CTC Telecommunication Tower - Conditional Use Permit.         Page 6         b. Resolution 17-02 – Capital Improvement List                                                  |
| Samantha Greenwood       Chair Tom McGann, Commissioners Scott Pegau, John Baenen, Allen         Assistant Planner       Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird         Jeif Stavig       Jeif Stavig         APPROVAL OF CONSENT CALENDAR (voice vote)         a. Minutes of July 11, 2017 Public Hearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Assistant Planner<br>Leif Stavig       Roemhildt, Mark Frohnapfel, Heath Kocan, and Nancy Bird         3. APPROVAL OF AGENDA (voice vote)       3. APPROVAL OF AGENDA (voice vote)         a. Minutes of July 11, 2017 Public Hearing.       Page 2         b. Minutes of July 11, 2017 Regular Meeting.       Page 3         c. Record excused absence for John Baenen and unexcused absence for Heath Kocan from the July 11, 2017 Regular Meeting       Page 3         5. DISCLOSURES OF CONFLICTS OF INTEREST       6. CORRESPONDENCE         7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS       a. Guest Speakers         b. Audience comments regarding agenda items (3 minutes per speaker)       Page 5         9. NEW/MISCELLANEOUS BUSINESS       a. CTC Telecommunication Tower - Conditional Use Permit.       Page 6         b. Resolution 17-02 – Capital Improvement List.       Page 44                                                                                                                                                                                                                                                                  |
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| <ul> <li>APPROVAL OF CONSENT CALENDAR (voice vote)</li> <li>APPROVAL OF CONSENT CALENDAR (voice vote) <ul> <li>a. Minutes of July 11, 2017 Public Hearing</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul> <li>a. Minutes of July 11, 2017 Public Hearing</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <ul> <li>8. PLANNER'S REPORT</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul> <li>9. NEW/MISCELLANEOUS BUSINESS         <ul> <li>a. CTC Telecommunication Tower - Conditional Use PermitPage 6</li> <li>b. Resolution 17-02 – Capital Improvement ListPage 44</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul> <li>a. CTC Telecommunication Tower - Conditional Use Permit</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| b. Resolution 17-02 – Capital Improvement List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| improvement list to the City Council of the City of Cordova, Alaska                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10. PENDING CALENDAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| a. August 2017 Calendar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| b. September 2017 Calendar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 11. AUDIENCE PARTICIPATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 12. COMMISSION COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 12. COMMISSION COMMENTS<br>13. ADJOURNMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

# PLANNING COMMISSION PUBLIC HEARING JULY 11, 2017 AT 6:30 PM CORDOVA CENTER COMMUNITY ROOMS A & B MINUTES

# 1. CALL TO ORDER

Chair *Tom McGann* called the Planning Commission Public Hearing to order at 6:30 PM on July 11, 2017 in Cordova Center Community Rooms A & B.

# 2. ROLL CALL

Present for roll call were Chair *Tom McGann* and Commissioners, *Scott Pegau, Allen Roemhildt*, *Mark Frohnapfel*, and *Nancy Bird. John Baenen* and *Heath Kocan* were absent.

Also present was City Planner Samantha Greenwood and Assistant Planner Leif Stavig.

0 people were in the audience.

# 3. PUBLIC HEARING

# a. Final Plat Approval for Tract E, Whitshed Road Mile 5, Anderson Lot Subdivision

M/**Pegau** S/**Frohnapfel** to recess until 6:44. With no objection, the hearing was recessed.

The Public Hearing came back to order at 6:44 PM.

# 4. ADJOURNMENT

M/*Frohnapfel* S/*Pegau* to adjourn the Public Hearing at 6:45 PM. With no objection, the hearing was adjourned.

Approved:

Tom McGann, Chair

Leif Stavig, Assistant Planner

# PLANNING COMMISSION REGULAR MEETING JULY 11, 2017 AT 6:45 PM CORDOVA CENTER COMMUNITY ROOMS A & B MINUTES

# 1. CALL TO ORDER

Chair *Tom McGann* called the Planning Commission Regular Meeting to order at 6:45 PM on July 11, 2017 in Cordova Center Community Rooms A & B.

# 2. ROLL CALL

Present for roll call were Chair *Tom McGann* and Commissioners, *Scott Pegau, Allen Roemhildt*, *Mark Frohnapfel*, and *Nancy Bird. John Baenen* and *Heath Kocan* were absent.

Also present was City Planner Samantha Greenwood and Assistant Planner Leif Stavig.

0 people were in the audience.

# 3. APPROVAL OF AGENDA

M/Bird S/Frohnapfel to approve the agenda. Upon voice vote, motion passed 5-0. Yea: McGann, Pegau, Roemhildt, Frohnapfel, Bird Absent: Baenen, Kocan

# 4. APPROVAL OF CONSENT CALENDAR

- a. Minutes of June 13, 2017 Public Hearing
- b. Minutes of June 13, 2017 Regular Meeting
- c. Record excused absence for Scott Pegau and Heath Kocan from the June 13, 2017 Regular Meeting

M/Bird S/Roemhildt to approve the consent calendar. Upon voice vote, motion passed 5-0. Yea: McGann, Pegau, Roemhildt, Frohnapfel, Bird Absent: Baenen, Kocan

# 5. DISCLOSURES OF CONFLICTS OF INTEREST

# 6. CORRESPONDENCE

a. Letter from State of Alaska DOT

# 7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS

- a. Guest Speakers
- b. Audience comments regarding agenda items

# 8. PLANNER'S REPORT

Bird verified with Greenwood that the budget process was starting a lot sooner than normal.

# 9. NEW/MISCELLANEOUS BUSINESS

# a. Final Plat Approval for Tract E, Whitshed Road Mile 5, Anderson Lot Subdivision

M/*Pegau* S/*Frohnapfel* to recommend to City Council to approve the final plat request for Tract E, Whitshed Road Mile 5, Anderson Lot Subdivision.

*Roemhildt* verified that the property owner was the Eyak Corporation, which is different than the applicant. *Stavig* said that the Eyak Corporation would be signing the plat.

Upon voice vote, motion passed 5-0. Yea: *McGann, Pegau, Roemhildt, Frohnapfel, Bird* Absent: *Baenen, Kocan* 

# **10. PENDING CALENDAR**

*Pegau* asked if the commission would be asked for their input on the budget. Greenwood said there was a new manager and they would have to see how he wanted to do things.

*Pegau* said he would not be able to attend the next meeting

# **11. AUDIENCE PARTICIPATION**

# **12. COMMISSION COMMENTS**

*Roemhildt* said he wanted to see a list of the accomplished capital projects.

Frohnapfel said an inspector was in town and someone got dinged for not having a house number.

*McGann* suggested the city look at the beach next to CEC's old plant on Eyak Lake as a potential recreation area.

# **13. ADJOURNMENT**

M/*Pegau* S/*Frohnapfel* to adjourn the Regular Meeting at 7:37 PM. With no objection, the meeting was adjourned.

Approved:

Tom McGann, Chair

Leif Stavig, Assistant Planner

# Planner's Report

| Planning Commission           |
|-------------------------------|
| Planning Staff                |
| 8/2/2017                      |
| Recent Activities and Updates |
|                               |

- Zero building permits issued since the last meeting.
- Working with ADOT on replacement of Fleming Spit culverts. Land acquisition, engineering for relocating 16-inch water line and tracking for reimbursement.
- Adams Avenue grant has completed environmental review and is now determining which department will administer the grant.
- Working on easement on Tract C of the Crater Lake Watershed Tracts for CTC and CEC.
- Participated in tsunami public event during Salmon Jam noon to 3pm. We along with Joanie Behrends, Dick Groff, FEMA Region 10, and state employees educated the children about tsunamis and earthquakes.
- Working on loan application and environmental documents for Harbor piling replacement and storm drain improvement projects.
- Working with ADOT on Whitshed MOU amendment.
- Working with Carol to determining zoning by business license then to develop policy for utility charges.
- Continue to determine eligibility for multiple loans and grants.
- Wrote ordinance to fix obsolete reference in Avalanche code 18.35.
- Developing 2018 budget for City Manager.



# AGENDA ITEM # 9a Planning Commission Meeting Date: 8/8/2017

# PLANNING COMMISSION COMMUNICATION FORM

FROM: Planning Staff

**DATE:** 8/2/17

ITEM: CTC Telecommunication Tower Conditional Use Permit

**NEXT STEP:** Approve Conditional Use Permit

**INFORMATION MOTION** RESOLUTION

# I. <u>REQUEST OR ISSUE:</u>

Requested Actions:Telecommunication Tower – Conditional Use PermitApplicant:Cordova Telephone Cooperative, Inc.Parcel Number:02-025-100Zoning:UnrestrictedAttachments:Location Map<br/>Application

# II. <u>RECOMMENDED ACTION / NEXT STEP:</u>

"I move to approve the request by Cordova Telephone Cooperative, Inc. for a Conditional Use Permit to construct a telecommunication tower on Tract A, Crater Lake Watershed Tracts as described in their application."

# III. FISCAL IMPACTS:

N/A

# IV. BACKGROUND INFORMATION:

The following Conditional Use Standards have been met:

1. The requested conditional use permit will not adversely affect the public's health, safety, and general welfare.

The area in which CTC is proposing to construct their tower is very remote and will have little to no direct impact to anyone. The expanded coverage that will be provided by CTC will positively affect the public's health, safety, and general welfare by increasing communication capabilities in and around Cordova.

2. The requested conditional use will not permanently or substantially injure the lawful use of neighboring properties.

The area is remote and the terrain is steep. There are very few uses that are feasible in the area and it is the ideal location for a telecommunication tower.

3. The requested conditional use is compatible with the zoning district in which it is requested.

The Unrestricted District allows any legal use of property. Telecommunication towers are permitted in any zoning district with a Conditional Use Permit.

4. The proposed conditional use will not have a permanent negative impact on pedestrian and vehicular traffic circulation and safety substantially greater than that anticipated from permitted development.

There is no traffic or pedestrian impact as the tower will be located on a steep mountain ridge.

5. The proposed conditional use will not have a permanent negative impact on the demand for and availability of public services and facilities substantially greater than that anticipated from permitted development.

The tower will have no impact on public services and facilities.

The additional conditions for telecommunication towers contained in Section 18.60.015 of the Cordova Municipal Code are addressed in the application provided by CTC. Staff concur with the findings provided by CTC and see no reason to not grant the Conditional Use Permit as requested.

For condition C9, CTC requests that the Conditional Use Permit be granted with the setback reduced 1.2' from the east property boundary. Staff find that the request is reasonable as both tracts of land are very large and are owned by the same property owner. It is highly unlikely that there will ever be any other development in the area. The terrain is steep and mountainous, and the site chosen for the tower was the best location for the tower.

For condition C12, CTC requests that the Conditional Use Permit be granted without requiring an eight foot tall fence around the perimeter of the site. Staff find that the request is reasonable as the site is steep, mountainous, and remote. The fence itself could become a safety hazard and it is impractical for the tower.

# V. <u>LEGAL ISSUES:</u>

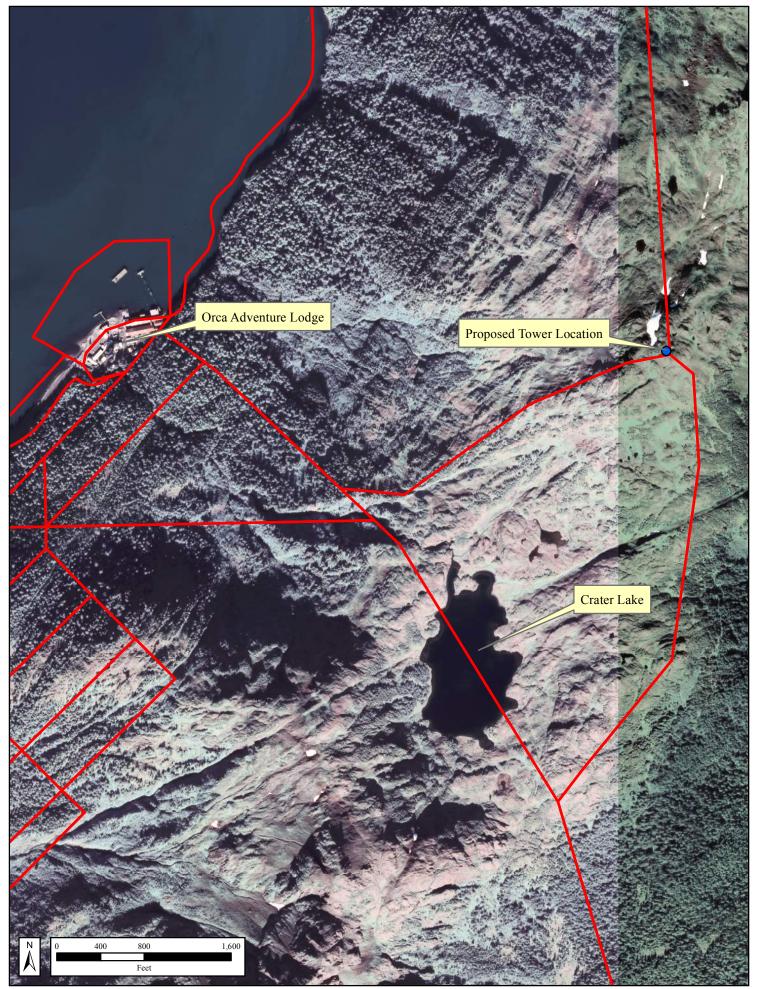
No legal review required.

# VI. <u>CONFLICTS OR ENVIRONMENTAL ISSUES:</u>

N/A

# VII. <u>SUMMARY AND ALTERNATIVES:</u>

N/A







# CONDITIONAL USE PERMIT APPLICATION City of Cordova, Alaska

| INSTRUCTIONS                                                 | PERMIT TYPE            | FEE   |
|--------------------------------------------------------------|------------------------|-------|
| Print or type requested information. Incomplete applications | Conditional Use Permit | \$250 |
| will be returned to the applicant and will delay issuance of |                        |       |
| the permit. Attach this application to the Building Permit   |                        |       |
| Application.                                                 |                        |       |
|                                                              |                        |       |

## STANDARDS FOR CONDITIONAL USE

The Planning Commission may only approve the conditional use if the commission finds that ALL of the following standards are satisfied. Conditional uses are subject to strict review because of the potential they hold to harm neighboring properties.

Explain how the requested conditional use permit will not adversely affect the public's health, safety, and general welfare.

The tower will not adversly affect the public's health, safety or welfare. The tower is up on Eyak Mountain out of the general area of the population and will only work to increase the services we provide to the public.

Explain how the requested conditional use will not permanently or substantially injure the lawful use of neighboring properties.

The tower will sit on a ridge of Eyak mountain. The tower will not be preventing any type of use on neighboring properties.

Explain how the requested conditional use is compatable with the zoning district in which it is requested.

The zoning district our tower would be built in is an unrestricted zone, which is usable for any legal use of the property per city code. This is a legal use.

Page 1 of 2

Explain how the proposed conditional use will not have a permanent negative impact on pedestrian and vehicular traffic circulation and safety substantially greater than that anticipated from permitted development.

The cell tower is on top of a ridge in a non-populated area of Mt. Eyak that does not see vehicular or pedestrian traffic; there will not be any impact on traffic circulation or safety.

Explain how the proposed conditional use will not have a permanent negative impact on the demand for and availability of public services and facilities substantially greater than that anticipated from permitted development.

The tower will only expand the availability of cellular services into areas of Nelson Bay and Orca Rd. There would not be any negative impact on the demand for and availability of public services and facilities.

# OTHER REQUIREMENTS FOR CONDITIONAL USE

Any application approved by the planning commission shall be conditional upon the privilege granted being utilized within (12) months after the effective date of approval.

Site and Building Plan are required. The Site Plan needs to be drawn to scale, showing the location of all existing and proposed buildings or improvements, elevations of such buildings or alterations, and off-street parking areas.

The City Planning Commission shall have the authority to impose such conditions and safeguards as it deems necessary to protect the best interests of the surrounding property or neighborhood and the Comprehensive City Plan and zoning ordinance.

Some conditional uses (telecommunication tower, coastal management areas, junkyard) are subject to additional conditions in Chapter 18.60 of the Cordova Municipal Code.

## APPLICANT CERTIFICATION

By the signature(s) attached hereto, I (we) certify that the information provided within this application and accompanying documentation is, to the best of my (our) knowledge, true and accurate. Furthermore, I (we) hereby authorize the City and its representatives to enter the propery associated with this application for purposes of conducting necessary site inspections.

|                      | - N. |
|----------------------|------|
| A 11 ( C!) ( C!)     | •    |
| Applicant Signature: |      |
|                      | _    |

Date: \$217017 Interim Gm ICED

Print Name and Title:

Page 2 of 2

18.60.015 - Conditional use for telecommunication tower.

- A. The planning commission may grant a conditional use permit for a telecommunication tower in any zoning district subject to the conditions in this section.
- B. The application for a conditional use permit for a telecommunication tower shall include the following information:
  - 1. A written narrative explaining why the proposed site has been chosen, why the telecommunication tower is necessary, why the requested height was chosen, and a full explanation regarding the telecommunication tower's ability to accommodate other providers; and

This site was chosen as a telecom site for location purposes. Adding a telecommunications tower increases our cell phone coverage to better serve the public on Orca Road, in Nelson Bay, Simpson Bay, Sheep Bay, and the surrounding area. It will also strengthen our coverage on the North side of town. This height was chosen to provide service with minimal impact to the area and is designed for future expansion. The site is able to accommodate future equipment needs; we will be collocating with Prince William Science Center for weather tracking and have tentative plans with CEC to allow them to mount microwave equipment on the tower.

2. Specifications for the telecommunication tower and all antennas to be located on it, including a description of design characteristics and material;

The tower design will be provided by New Horizons Telecom, Inc and Sabre. Please see Attachment A regarding tower specifications and Attachment B regarding antennas. The "Designed Appurtence Loading" list on Attachment A is not what is going on the tower. The list on Attachment A is indicating what the tower can handle. We are only placing 3 cellular antennas on the tower, but we have designed the tower to hold more. Please see Attachment B for the specifications of the antennas we will be installing on the tower.

3. A site plan drawn to scale showing property boundaries, telecommunication tower location, telecommunication tower height, guy wires and anchors and existing structures and land uses on the site and on adjacent property;

Please see Attachment C. The location coordinates will be approximately N60.579445 W145.690850. The tower will be 40 feet in height. There are no other existing structures or land uses on the adjacent properties.

4. A map showing the locations of the applicant's existing telecommunication towers that serve customers in the city and of all telecommunication towers that the applicant proposes to construct to serve customers in the city;

See Attachment D.

5. A report prepared by a person registered as a structural engineer in Alaska showing the capacity by type and number of the telecommunication tower and antennas, and that the telecommunication tower and antennas are designed to withstand winds in accordance with the latest revision of ASI/EIA/TIA/222 standards ("Structural standards for steel communications antenna towers and communications antenna supporting structures");

Please see Attachment E. This includes the certified tower design by a certified engineer registered for Alaska.

6. Identification of the person or persons who own the telecommunication tower and the equipment that is to be located on it;

The telecommunication tower and equipment located on it belongs to Cordova Wireless Communications, LLC.

7. Written authorization for the application from the owner of the site;

Please see Attachment F.

8. Evidence that the applicant has a valid FCC license for the use of the telecommunication tower;

We are licensed by the FCC to use the wireless spectrum. Please see Attachment G.

9. A line of sight analysis showing the potential visual and aesthetic impacts of the telecommunication tower on adjacent residential districts through the use of photo simulations of the telecommunication tower, including all antennas, structures, and equipment, using the vantage points and number of photo simulations requested by the planning department;

There are no adjacent residential districts. The tower will be below the top of a ridge on Eyak Mountain past Orca Lodge. It will be painted black to blend in with the surroundings and not create a reflection. There will be a very small visual/aesthetic impact.

10. A written agreement, on a form approved by the city attorney, to remove the telecommunication tower and restore the site to its original condition within one hundred eighty days after the telecommunication tower is substantially unused for a period of twelve consecutive months, and providing that if the telecommunication tower is not removed within this one hundred eighty-day period, the city may remove the telecommunication tower at the cost of the owner;

See Attachment H.

11. A cell phone coverage map showing the applicant's proposed cell phone coverage within the city;

See Attachment I.

12. A certificate from an engineer licensed in Alaska that the telecommunication tower, and all antennas and other equipment located on it, are built and installed to approved specifications and will contain only equipment meeting Federal Communications Commission requirements;

This will be provided within 30 days of completion.

- 13. Any additional information required by the planning department during the application process.
- C. The planning commission may approve an application under this section, with or without conditions, if the application meets the following criteria:
  - 1. Location and Visual Impact. The proposed location of the telecommunication tower will minimize the visual impact on the surrounding area while allowing the telecommunication tower to function in accordance with minimum standards imposed by the applicable telecommunications regulations and the applicant's technical design requirements. Telecommunication towers and attached antennas and equipment must be painted or coated in a color that blends with the surrounding environment. Muted colors, earth tones, and subdued hues, such as gray, shall be used. All associated structures such as equipment buildings, including the roofs, shall be painted with earth tone colors unless otherwise required under this code or other applicable law. Where necessary to make a telecommunication tower compatible with the historical, environmental or cultural character of its location, the planning commission may require that the telecommunication tower be disguised, hidden or screened, or integrated as an architectural feature of a structure, to reduce its visual impact.

There will be little view impact on the surrounding area. The tower will be painted black to blend in with the surrounding area and not create a reflection.

2. Inability to Collocate. It is not feasible to locate the applicant's telecommunication antenna and other equipment on any existing structure or tower under the control of the applicant.

There are no other existing structures under the control of the applicant in that area. The nearest tower to this proposed site is on Tri-pod, which is 2 miles away. This tower provides excellent coverage however it does not reach all the areas in Nelson Bay and the surrounding area that we need to cover, particularly the areas used by SERVS, Orca Lodge, as other business that use these areas.

3. Location in a Residential Zoning District. An applicant seeking to locate a telecommunication tower in a residential zoning district must show that the area cannot be adequately served by a telecommunication tower located in a nonresidential zoning district for valid technical reasons.

This tower is not located in a residential district.

4. Location on Public Property or Other Private Property. If the applicant proposes to acquire a site on private property for the telecommunication tower, the applicant must show that no available publicly owned site or available privately owned site occupied by a compatible use is suitable under applicable communications regulations and the applicant's technical design requirements.

There are no other publicly owned or privately owned sites occupied by a compatible use in that area. The nearest tower is located on Tri-pod, located two miles away

5. Design for Future Use. A new telecommunication tower shall be designed to allow collocation of telecommunication antennas equal in number to the applicant's present and reasonably foreseeable future requirements.

The tower is designed to allow for future additional use with space for necessary equipment and antennas. There are three antennas going onto the tower. The capacity would be 6 antennas of the same type. Any more than that would depend on type and specifications of the antenna.

6. Safety Code Met. The telecommunication tower meets all applicable laws and code requirements, including without limitation health, nuisance, noise, fire, building and safety code requirements.

This will be provided with the tower and building drawings. They will meet all building and safety codes. We will have a ladder on the tower for access. Please refer to Attachment A for tower plans of the climbing ladder. This ladder does reach to the ground, however, the location of the tower and ladder is very isolated and barely accessible except by helicopter. For these reasons we do not see this ladder as being a safety issue. However, like we did with the tower on Tripod, we will attach a cover secured with a lock to prevent unauthorized access.

7. Distance from Existing Telecommunication Towers. A telecommunications tower shall not be approved if it is located within one-half mile (two thousand six hundred forty feet) of an existing telecommunication tower, unless the applicant certifies that the existing telecommunication tower does not meet the applicant's structural specifications and technical design requirements, or that a collocation agreement could not be obtained.

This tower is not within one-half mile of an existing telecommunications tower. The closest tower is on Tri-pod, located two miles away. Please see C-2 and C-4.

8. Zoning Requirements. With the exception of requirements for setback and height, which are established in this section, the telecommunication tower must comply with all applicable zoning laws and regulations, including, without limitation, all laws governing land development, visibility, fencing, screening, landscaping, parking, access, lot size, exterior illumination, and sign, storage.

This will be provided with the tower and building drawings. The plans meet the applicable zoning laws and regulations.

9. Setback. In all zoning districts, a telecommunication tower must be located no less than a distance equal to the tower height from all lot lines.

Please refer to Attachment C. Our tower will be 40.3' away from the lot line on the south facing side. On the East facing side, our tower is only 38.8' from the line. We cannot move our tower from this location as moving the tower will put it on a downward slope towards Orca Bay. This location is as far away from the lot line as possible to install the tower on level ground.

10. Signs. No signs may be located on a telecommunication tower except for identification signage.

No signs will be installed.

11. Lighting. No lighting may be located on a telecommunication tower except as reasonably required for safety purposes or as required by the Federal Communications Commission, Federal Aviation Administration or other government agency with jurisdiction.

There will be no lighting on this tower.

12. Fencing. A fence with a minimum height of eight feet must be placed on the perimeter of the site of a telecommunications tower site to limit access by the public.

The tower is located on a ridge on Eyak Mountain that is not easily traversed by or accessible to the public or close to trails. We request that the Planning Commision waive the fence requirement. A fence becomes a hazard in deep snow conditions. A person could posthole through the snow and impale themselves on a fence. Further, the site is built on solid rock and a rock drill would have to be used to drill every hole. The terrain is extremely uneven and a fence would impede access to the owner as well as the public due to the difficulty in opening the gate in feet of frozen snow.

13. Height. The height of a telecommunications tower may not exceed the maximum tower height specified in the conditional use permit or in this section.

The height of the tower is 40 feet.

D. No decision regulating the placement, construction or modification of a telecommunication tower may be made on the basis of environmental or health effects of radio frequency emission if the antennas and other equipment on the telecommunication tower comply with Federal Communications Commission regulations.

(Ord. No. 1070, § 12, 7-21-2010)

#### Designed Appurtenance Loading

| Elev | Description                           | Tx-Line     |
|------|---------------------------------------|-------------|
| 40   | 3T-Boom(R) - 10ft Face - 3ft Standoff |             |
| 40   | (9) 96" x 14.6" x 7,3" panel          | (18) 1 1/4" |
| 40   | (3) 12" x 4.25" Whip                  | (3) 1 1/4"  |
| 40   | (1) PTZ Camera (IP)                   | (1) 1/2"    |
| 30   | (2) Leg Dish Mount                    |             |
| 30   | (2) 6' Solid Dish W/ Radome           | (4) 1 1/4*  |

#### **Base Reactions**

| Total Foundation  |        | Individual                            | Individual Footing |  |  |
|-------------------|--------|---------------------------------------|--------------------|--|--|
| Shear (kips)      | 48.31  | Shear (kips)                          | 26.94              |  |  |
| Axial (kips)      | 22,07  | Compression (kips)                    | 230                |  |  |
| Moment (ft-kips)  | 1375   | Uplift (kips)                         | 225                |  |  |
| Torsion (ft-kips) | -15.69 | · · · · · · · · · · · · · · · · · · · |                    |  |  |

#### Material List

| Display | Value                 |  |  |
|---------|-----------------------|--|--|
| A       | L 2 1/2 X 2 1/2 X 1/4 |  |  |

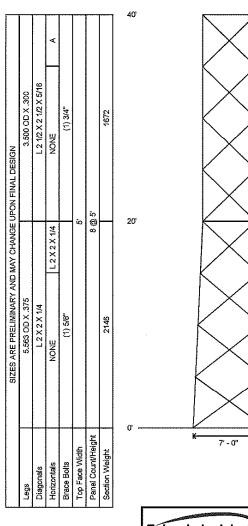
#### Notes

1) All legs are A500 (50 ksi Min. Yield).

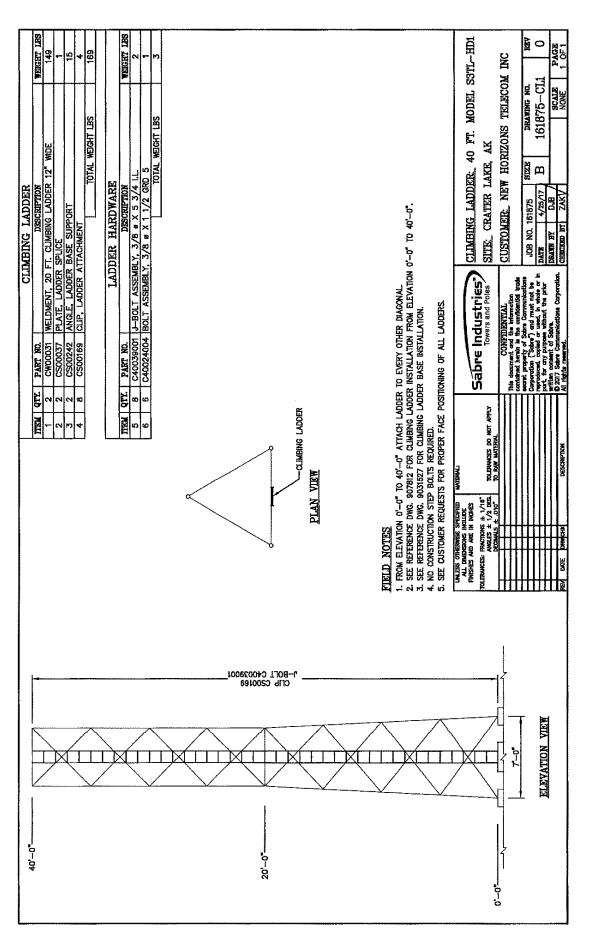
2) All braces are A572 Grade 50.

3) All brace bolts are A325-X.

- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 12 hole waveguide ladders.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- 8) (6) 1" dia. F1554 grade 105 anchor bolts per leg. Minimum 35.5" embedment from top of concrete to top of nut.
- 9) All unequal angles are oriented with the short leg vertical.
- 10) Weights shown are estimates. Final weights may vary.
- 11) This tower was designed for a basic wind speed of 130 mph with 0" of radial ice, and 60 mph with 1/2" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class II, Exposure Category D, Topographic Category 3, with a Crest Height of 2250'.
- 12) The foundation loads shown are factored loads.



|                                                                                                                                                                                                                                             | Sabre Communications Corporation<br>7101 Southbridge Drive                                | Quote:     | 17-6269-RSS-R1 Option 1            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------|------------------------------------|
| Sabre Industries                                                                                                                                                                                                                            | PLO, Box 668<br>Sloux City, IA 51102-0658<br>Phone: (7/2) 238-6690<br>Far: (7/3) 239-6614 | Customer:  | NEW HORIZONS TELECOM INC           |
| Towers and Poles                                                                                                                                                                                                                            |                                                                                           | Site Name: | Crater Lake, AK                    |
| Part (1/12/25/0614<br>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade<br>secret as defined by lowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for | Description:                                                                              | 40' S3TL   |                                    |
| secret as defined by love Code Ch. 550 and shall not be reproduced, copied or used in whole or part for<br>any purpose whatsoever willout the prior written consent of Sabre Communications Corporation.                                    |                                                                                           | Date:      | 4/12/2017 <sup>By:</sup> PSW Page: |



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Attachment A

| Multi-band Panel                      | 698-894   | kqthrein              |
|---------------------------------------|-----------|-----------------------|
| Dual Polarization                     | X         | Antennen · Electronic |
| Half-power Beam Width                 | 65°       | <i>.</i>              |
| Integrated replaceable Remote Control | Unit IRCU |                       |
| Adjustable Electrical Downtilt        | 0.5°-9.5° | AISGY 3GR             |

#### XPol Panel iRCU 698-894 65° 17dBi 0.5°-9.5°T

| Type No.                                                                     | 80010736vo1                                  |                                              |  |
|------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|--|
| A) Antenna specifications                                                    |                                              |                                              |  |
|                                                                              | 698-                                         | -894 ,                                       |  |
| Frequency range                                                              | 698 - 806 MHz                                | 824 - 894 MHz                                |  |
| Polarization                                                                 | +45°,45°                                     | +45°,45°                                     |  |
| Gain                                                                         | 14.25 dBd / 16.4 dBi                         | 14.85 dBd / 17 dBi                           |  |
| Horizontal Pattern:                                                          |                                              |                                              |  |
| Half-power beam width                                                        | 67°                                          | 68°                                          |  |
| Front-to-back ratio                                                          | Copolar: > 30 dB<br>Average: 35 dB           | Copolar: > 30 dB<br>Average: 35 dB           |  |
| Cross polar ratio<br>Maindirection 0°<br>Sector ±60°                         | Typically: > 25 dB<br>> 11 dB, Avg. 15 dB    | Typically: > 20 dB<br>> 11 dB, Avg. 15 dB    |  |
| Vertical Pattern:                                                            |                                              |                                              |  |
| Half-power beam width                                                        | 9.5°                                         | 8.6°                                         |  |
| Electrical tilt                                                              | 0.5°9.5°, contin                             | uously adjustable                            |  |
| Min. sidelobe suppression for<br>first sidelobe above main beam:<br>Average: | 0.5° 5° 9.5° T<br>16 16 16 dB<br>18 18 17 dB | 0.5° 5° 9.5° T<br>18 18 17 dB<br>20 20 20 dB |  |
| Impedance                                                                    | . 50                                         | Ω                                            |  |
| VSWR                                                                         | < 1.5                                        |                                              |  |
| Isolation, between ports                                                     | > 30 dB                                      |                                              |  |
| Intermodulation IM3                                                          | <-150 dBc (2 x 43 dBm carrier)               |                                              |  |
| Max. power per input                                                         | 500 W (at 50 °C ambient temperature)         |                                              |  |

IRCU 698-894 698-894 ìn out +45° -45° 8pin 8pin 7 16 7-16

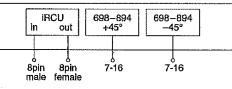
B) IRCU specifications (86010149)\* Field replaceable without dismantling the antenna Logical interface ex factory1) 3GPP/AISG 2.0 Protocols Compliant to AISG 1.1 and 3GPP/AISG 2.0 Hardware interface2) 2 x 8pin connector acc. IEC 60130-9; according to AISG: - iRCU in (male): Control / Dalsy chain in - IRCU out (female): Daisy chain out Power supply 10 ... 30 V Power consumption <1 W (stand by) < 8.5 W (motor activated) Adjustment time (full range) 40 sec. Adjustement cycles > 50,000 CE, FC3) Certification

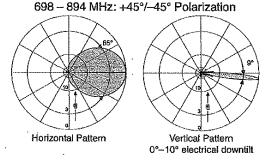
\* See mounting instructions and warnings.

1) The protocol of the logical interface can be switched from 3GPP/AISG 2.0 to AISG 1.1 and vice versa with a vendor specific command. Start-up operation of the IRCU 86010149 is possible in a RET system supporting AISG 1.1 or supporting 3GPP/AISG 2.0 atter per-forming a layer 2 reset before address assignment. The protocol can also be changed as follows: AISG 1.1 to 3GPP: Enter "3GPP" into the additional data filed "Installer's ID" and perform a layer 7 reset or a power reset. 3GPP to AISG 1.1 Enter "AISG 1" into the additi-onal data field "Installer's ID" and perform a layer 2 reset or a power reset. After switching the protocol any other information can be entered into the "Installer's ID" field.

<sup>2)</sup> The tightning torque for fixing the connector must be 0.5 - 1.0 Nm ('hand-tightened'). The connector should be lightened by hand only!

<sup>3)</sup> Tested to comply with FCC Standards. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any Interference received, including Interference that may cause undesired operation.





80010736voi - Page 1-of 2

KATHREIN-Werke KG + Anton-Kathrein-Straße 1-3 · P.O. Box 10 04 44 · 83004 ROSENHEIM · GERMANY · Phone +49 8031 184-0 · Fax +49 8031 184-820

31.5

# Accessories General Information

# KATHREIN

Antennen Electronic

| Input                         | 2 x 7-16 female                                                                                                                                                                                                                                                                                                                                                       |                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|                               | iRCU in: 1 x 8pin male<br>iRCU out: 1 x 8pin female                                                                                                                                                                                                                                                                                                                   | A GLO PAL INITIATIY                                                 |
| Connector position            | Bottom                                                                                                                                                                                                                                                                                                                                                                |                                                                     |
| Wind load                     | Frontal: 1160 N (at 150 km/h) 2900 N (at 150 mph)<br>Lateral: 390 N (at 150 km/h) 970 N (at 150 mph)<br>Rearside: 1380 N (at 150 km/h) 3450 N (at 150 mph)                                                                                                                                                                                                            | σ. <u>64</u>                                                        |
| Max. wind velocity            | 241 km/h (150 mph)                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| Height/width/depth            | 2438 / 303 / 99 mm (96 / 11.9 / 3.9 inches)                                                                                                                                                                                                                                                                                                                           |                                                                     |
| Category of mounting hardware | H (Heavy)                                                                                                                                                                                                                                                                                                                                                             |                                                                     |
| Weight                        | 17 kg (37.5 lbs) / 19 kg (41.9 lbs) (clamps incl.)                                                                                                                                                                                                                                                                                                                    |                                                                     |
| Packing size                  | 2600 x 315 x 115 mm (102.4 x 12.4 x 4.5 inches)                                                                                                                                                                                                                                                                                                                       |                                                                     |
| Scope of supply               | Panel and 2 units of clamps 42 – 115 mm diameter                                                                                                                                                                                                                                                                                                                      |                                                                     |
| Material:                     | Reflector screen: Weather-proof aluminum. Radiator: Tin-plated zinc.<br>IRCU housing: Coated aluminum.<br>Fiberglass radome: The grey fiberglass radomes of these antennas<br>are very stable and extraordinarily stiff. They are resistant to ultraviolet<br>radiation and can also be painted to match their surroundings.<br>All screws and nuts: Stainless steel. | 2439                                                                |
| Grounding:                    | The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.                                                                                                                                                                                                                                                                   |                                                                     |
| Environmental tests:          | IRCU additionally fulfil the standards:<br>EN 60950-1 (Safety), EN 55022 (Emission) and EN 55024 (Immunity)                                                                                                                                                                                                                                                           |                                                                     |
|                               | Ē1                                                                                                                                                                                                                                                                                                                                                                    | Bottom view<br>Dimensions refer to radome.<br>All dimensions in mm. |

#### Accessories

| Type No. | Description    | Remarks                     | Weight<br>kg | approx.<br>Ibs | Units per antenna                   |
|----------|----------------|-----------------------------|--------------|----------------|-------------------------------------|
| 738546   | 1 clamp        | Mast: 42 – 115 mm diameter  | 1.1          | 2.4            | 2 (included in the scope of supply) |
| 85010002 | 1 clamp        | Mast: 110 - 220 mm diameter | 2.7          | 6.0            | 2 (order separately if required)    |
| 85010003 | 1 clamp        | Mast: 210 – 380 mm dlameter | 4.8          | 10.6           | 2 (order separately if required)    |
| 85010008 | 1 downtilt kit | Downtilt angle: 0° – 8°     | 6.5          | 14.3           | 1 (order separately if required)    |

Wall mounting: No additional mounting kit needed.

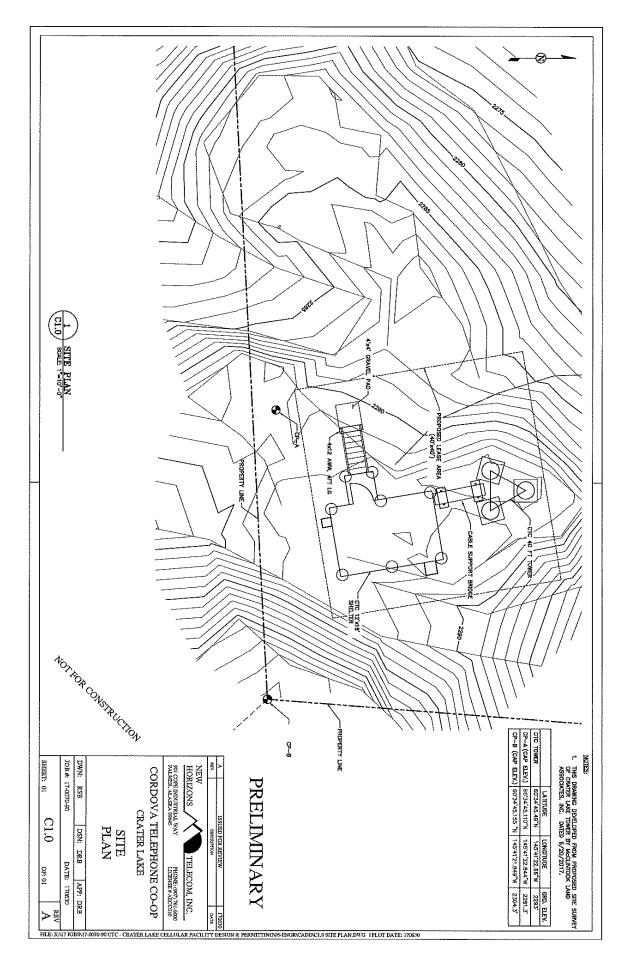
#### Page 2 of 2 80010736vo1

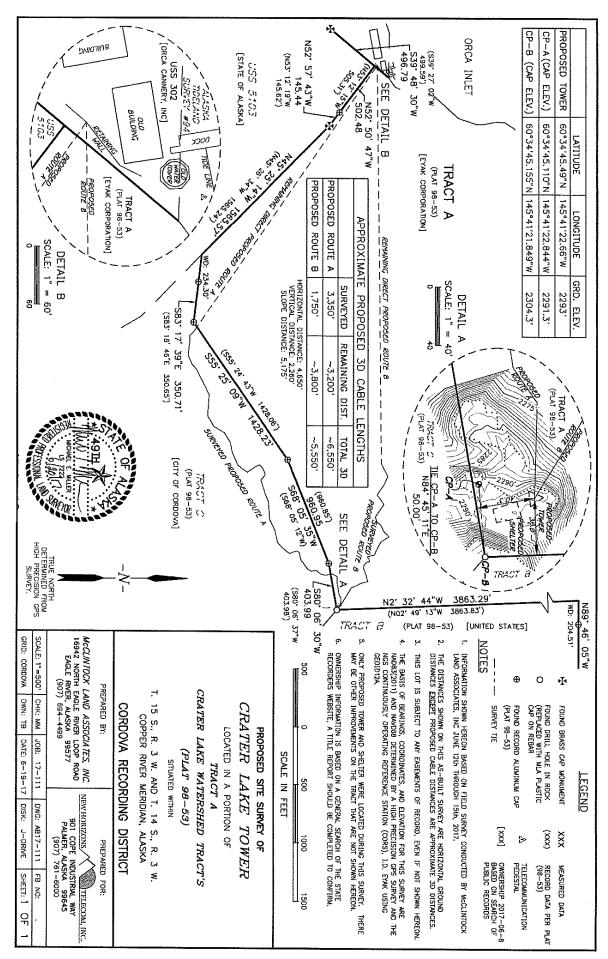
#### Any previous data sheet issues have now become invalid.

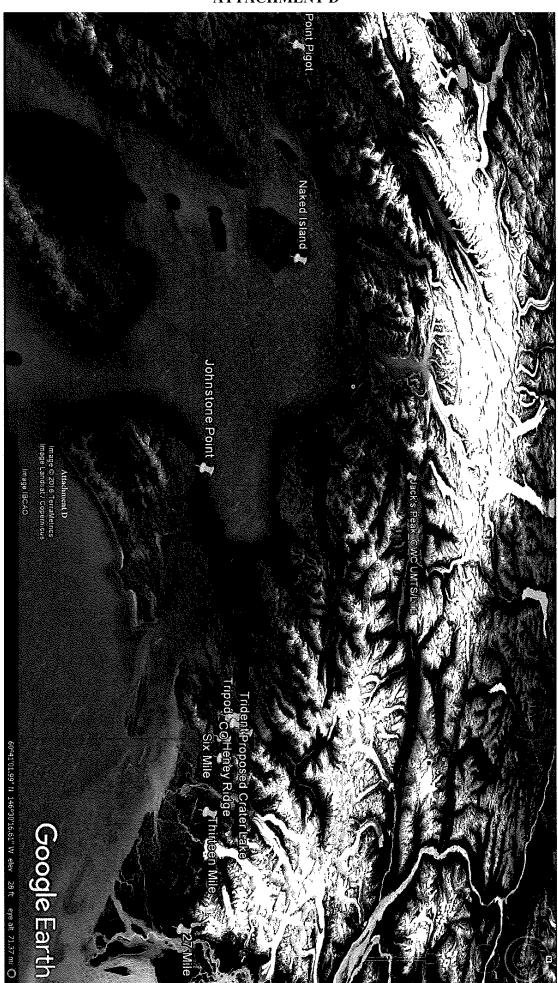
www.kathrein.de

936,4274/b Subject to alteration.

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<sup>22</sup> of 50

| Structural Design Report<br>40' S3TL Series HD1 Self-Supporting Tower<br>Site: Crater Lake, AK |
|------------------------------------------------------------------------------------------------|
| Prepared for: NEW HORIZONS TELECOM INC by: Sabre Towers & Poles TM                             |
| Job Number: 161875<br>Revision A<br>April 21, 2017                                             |
| Tower Profile                                                                                  |
| Maximum Leg Loads                                                                              |
| Maximum Diagonal Loads                                                                         |
| Maximum Foundation Loads                                                                       |
| Calculations                                                                                   |
|                                                                                                |
| KEITH J. TINDALL<br>No. SE 14819<br>THUCTURAL COMPANY<br>Certificate of Authorization #113307  |

#### **Designed Appurtenance Loading**

| Elev | Description                           | Tx-Line     |
|------|---------------------------------------|-------------|
| 40   | 3T-Boom(R) - 10ft Face - 3ft Standoff |             |
| 40   | (9) 96" x 14" x 7" panel              | (18) 1 1/4" |
| 40   | (3) 12' x 5" Omni                     | (3) 1 1/4"  |
| 40   | (1) PTZ Camera (IP)                   | (1) 1/2"    |
| 30   | (2) Leg Dish Mount                    |             |
| 30   | (2) 6' Solid Dish W/ Radome           | (4) 1 1/4"  |

#### **Base Reactions**

| Total Foundation  |        | Individual         | Footing |
|-------------------|--------|--------------------|---------|
| Shear (kips)      | 49.13  | Shear (kips)       | 27.41   |
| Axial (kips)      | 22.68  | Compression (kips) | 235     |
| Moment (ft-kips)  | 1407   | Uplift (kips)      | 230     |
| Torsion (ft-kips) | -15.69 |                    |         |

#### Material List

| Display | Value                 |
|---------|-----------------------|
| A       | L 2 1/2 X 2 1/2 X 1/4 |

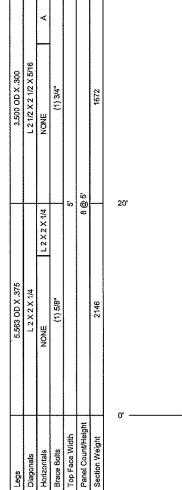
### Notes

1) All legs are A500 (50 ksi Min. Yield).

2) All braces are A572 Grade 50.

3) All brace bolts are A325-X.

- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 12 hole waveguide ladders.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- (6) 1" dia. F1554 grade 105 anchor bolts per leg. Minimum 35.5" embedment from top of concrete to top of nut.
- 9) All unequal angles are oriented with the short leg vertical.
- 10) Weights shown are estimates. Final weights may vary.
- 11) This tower was designed for a basic wind speed of 130 mph with 0" of radial ice, and 60 mph with 1/2" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class II, Exposure Category D, Topographic Category 3, with a Crest Height of 2250'.
- 12) The foundation loads shown are factored loads.
- 13) Tower Rating: 98.98%



40'

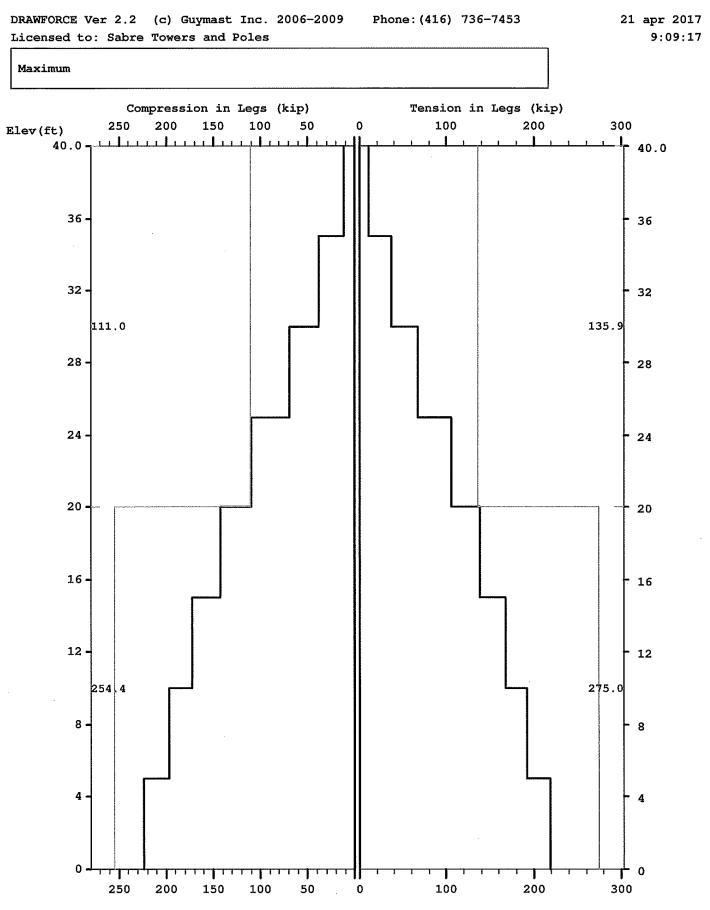
|                                                                                                                                                                                                                                                 | Sabre Communications Corporation<br>7101 Southbridge Drive<br>P.O. Box 658<br>Sioux City, JA 51102-0658<br>Phome (712) 258-6590<br>From (712) 258-6590<br>Frome (712) 259-614 | Job:         | 161875A                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|
| Sabre Industries/                                                                                                                                                                                                                               |                                                                                                                                                                               | Customer:    | NEW HORIZONS TELECOM INC     |
| Towers and Poles                                                                                                                                                                                                                                |                                                                                                                                                                               | Sile Name:   | Crater Lake, AK              |
| Fact (12) 279-9014<br>Information contained harels is the sole property of Sabre Communications Corporation, constitutes a trade<br>secret as defined by lowa Code Ch. 550 and shall not be reproduced, copied or used in which or part for any |                                                                                                                                                                               | Description: | 40' S3TL                     |
| secret as defined by lowa Code Ch. 550 and shall no<br>purpose whatsoever without the prior written conserv                                                                                                                                     | s de reproduced, coped or deed in White or part for any<br>t of Sabre Communications Corporation.                                                                             | Date:        | 4/21/2017 <sup>By:</sup> KJT |

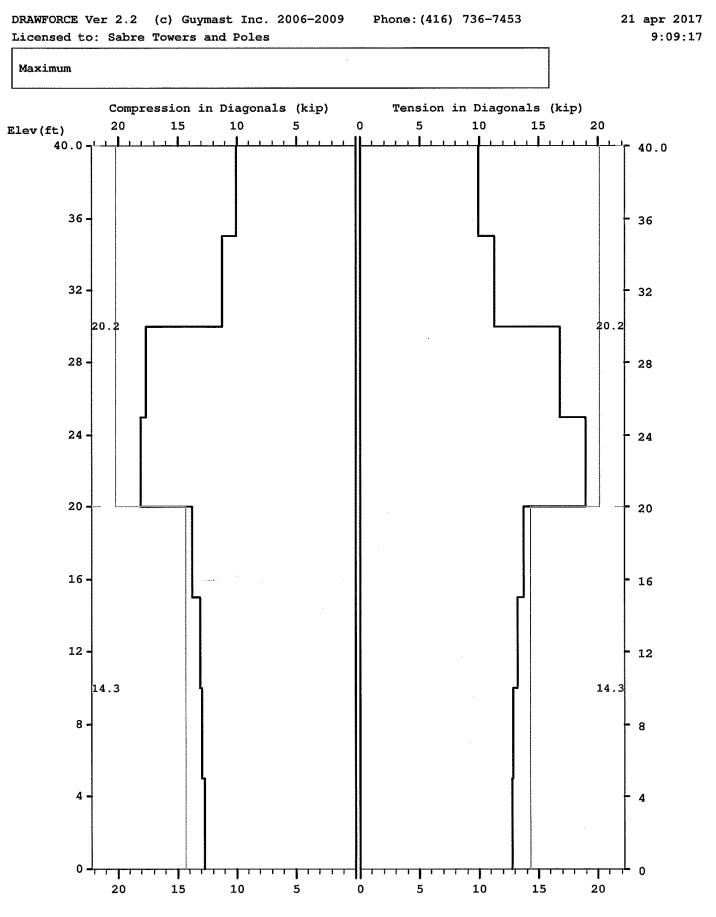
# 24 of 50

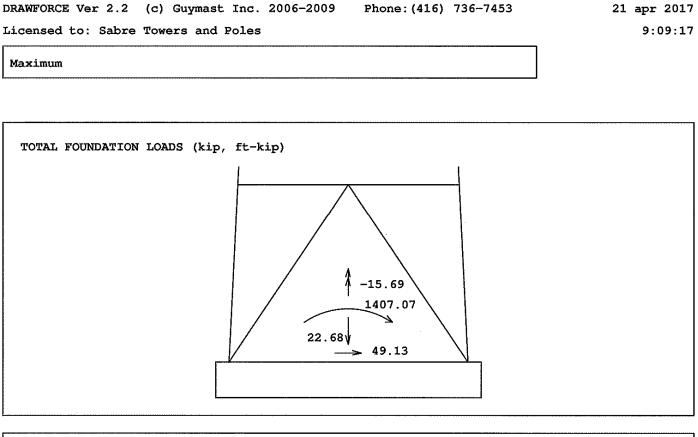
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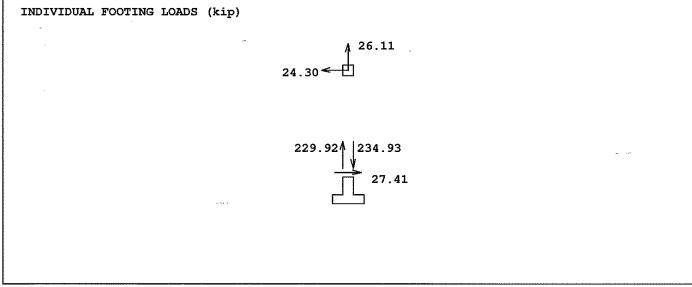
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7' - 0"









| Lattice<br>Process           | ed Tower<br>ed unde                              | r Analysi<br>er licens                           | s (Unguye<br>e at:                                 | ========<br>≥d)                                | ((                               | c)2013                                 | Guymast Ir                                                                 | nc. 416-73                               | 36-7453                                |
|------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------|----------------------------------|----------------------------------------|----------------------------------------------------------------------------|------------------------------------------|----------------------------------------|
| Sabre T                      | owers a                                          | and Poles                                        |                                                    |                                                |                                  | on                                     | : 21 apr 20                                                                | )17 at:                                  | 9:09:17                                |
|                              |                                                  |                                                  |                                                    |                                                |                                  |                                        |                                                                            |                                          |                                        |
| MAST GF                      | OMETRY                                           | (ft)                                             |                                                    |                                                |                                  |                                        |                                                                            |                                          |                                        |
|                              |                                                  |                                                  |                                                    |                                                |                                  |                                        |                                                                            |                                          |                                        |
| PANEL<br>TYPE                | NO.OF<br>LEGS                                    | ELEV<br>BOT                                      |                                                    | ELEV.AT<br>TOP                                 | F.W.<br>BOT                      |                                        | F.WAT<br>TOP                                                               | TYPICAL<br>PANEL<br>HEIGHT               |                                        |
| X<br>X<br>X<br>X             | 3<br>3<br>3<br>3<br>3                            | 20<br>15                                         | .00<br>.00<br>.00<br>.00                           | 40.00<br>35.00<br>20.00<br>15.00               | 5                                | .00<br>.00<br>.50<br>.00               | 5.00<br>5.00<br>5.00<br>5.50                                               | 5.00<br>5.00<br>5.00<br>5.00             |                                        |
| MEMBER                       | PROPERT                                          | TIES                                             |                                                    |                                                | -                                |                                        |                                                                            |                                          |                                        |
| MEM                          | IBER<br>YPE                                      | BOTTOM<br>ELEV<br>ft                             | TOP<br>ELEV<br>ft                                  | X-SECT<br>ARE<br>in.s                          | A OF G                           | DIUS<br>YRAT<br>in                     | ELASTIC<br>MODULUS<br>ksi                                                  | THERMAL<br>EXPANSN<br>/deg               |                                        |
|                              | LE<br>DI<br>DI<br>HO<br>HO                       | 20.00<br>0.00<br>20.00<br>0.00<br>35.00<br>15.00 | 40.00<br>20.00<br>40.00<br>20.00<br>40.00<br>20.00 | $3.01 \\ 6.11 \\ 1.46 \\ 0.93 \\ 1.18 \\ 0.93$ | 1 1<br>55 0<br>88 0<br>88 0      | 136<br>136<br>761<br>761<br>769<br>769 | 29000. 0.<br>29000. 0.<br>29000. 0.<br>29000. 0.<br>29000. 0.<br>29000. 0. | 0000116<br>0000116<br>0000116<br>0000116 |                                        |
|                              |                                                  | R RESIST                                         |                                                    |                                                |                                  |                                        |                                                                            |                                          |                                        |
| 30TTOM<br>ELEV<br>ft         | TOP<br>ELEV<br>ft                                | L<br>COMP<br>kip                                 | EGS<br>TENS<br>kip                                 | DIAG<br>COMP<br>kip                            | GONALS<br>TENS<br>kip            | HOF<br>COMF<br>kip                     |                                                                            | INT BF<br>COMP<br>kip                    | RACING<br>TENS<br>kip                  |
| 35.0<br>20.0<br>15.0<br>0.0  | 40.0<br>35.0<br>20.0<br>15.0                     | 110.98<br>110.98<br>254.38<br>254.38             | 135.90<br>135.90<br>274.95<br>274.95               | 20.19<br>20.19<br>14.32<br>14.32               | 20.19<br>20.19<br>14.32<br>14.32 | 16.19<br>0.00<br>10.88<br>0.00         | 0.00<br>0.00<br>0.88                                                       | $0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00$   | $0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00$ |
| Some w<br>=======<br>LOADING | vind loa<br>==================================== |                                                  | ave been<br>=========                              | derived<br>                                    |                                  |                                        | e wind tur                                                                 | nel test                                 | i ng                                   |
| MAST LO                      | ADING                                            |                                                  |                                                    |                                                |                                  |                                        |                                                                            |                                          |                                        |
| LOAD<br>TYPE                 | ELEV A                                           | APPLYLO<br>RADIUS<br>ft                          | ADAT<br>AZI                                        | LOAD<br>AZI                                    | HORIZ<br>kip                     | DQ                                     | WN VERTIC                                                                  |                                          |                                        |
| с                            | 40.0                                             | 0.00                                             | 0.0                                                | 0.0                                            | 18,74                            | 2,                                     | .47 0.                                                                     | .00 (                                    | 0.00                                   |

0.03 0.03 0.03 -0.03 -0.03

0.02 0.02 0.02 0.02 0.02 0.02 0.02

0.14 0.14 0.12 0.12 0.13 0.13

0.63 0.63 0.58 0.58 0.61

0.62

40.0 35.0 35.0 30.0 30.0 20.0

  $\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00 \end{array}$ 

38.2 38.2 38.2 38.2 33.7 33.7 

|                                                                                                                                                               |                                                                                                                                                             |                                                                                      | PLANNING COMMISSION REGULAR MEETING<br>AUGUST 8, 2017<br>ATTACHMENT E                                                     |                                                                          |                                                                                                        |                                                                                                                               |                                                                                    |                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| D<br>D                                                                                                                                                        | 20.0<br>0.0                                                                                                                                                 | $0.00 \\ 0.00$                                                                       | 33.6<br>33.3                                                                                                              | $\begin{array}{c} 0.0\\ 0.0\end{array}$                                  | 0.64<br>0.64                                                                                           | $0.16 \\ 0.15$                                                                                                                | 0.02<br>0.01                                                                       | -0.03<br>-0.03                                                                                                            |
|                                                                                                                                                               | A LOADI                                                                                                                                                     |                                                                                      |                                                                                                                           |                                                                          |                                                                                                        |                                                                                                                               |                                                                                    |                                                                                                                           |
| ТҮРЕ                                                                                                                                                          | .ANTENN<br>ELE<br>f                                                                                                                                         |                                                                                      | ATTA<br>RAD<br>ft                                                                                                         | CHMENT<br>AZI                                                            | AXIAL<br>kip                                                                                           | ANTEN<br>SHEAR<br>kip                                                                                                         | NA FORCES.<br>GRAVITY<br>kip                                                       | TORSION<br>ft-kip                                                                                                         |
| STD+R<br>STD+R                                                                                                                                                | 30.<br>30.                                                                                                                                                  |                                                                                      | 4.4<br>4.4                                                                                                                | 120.0<br>240.0                                                           | 0.54<br>0.54                                                                                           | -1.64<br>1.64                                                                                                                 | 0.24<br>0.24                                                                       | -3.69<br>3.69                                                                                                             |
|                                                                                                                                                               | SS PRIN                                                                                                                                                     |                                                                                      |                                                                                                                           |                                                                          |                                                                                                        |                                                                                                                               |                                                                                    |                                                                                                                           |
| LOA<br>INP                                                                                                                                                    | DS DI                                                                                                                                                       | .FOR THIS<br>SPL MEMI<br>FORG                                                        | BER FÖL                                                                                                                   | IG<br>INDN<br>DADS                                                       | ALL DIS                                                                                                | MAXIMUMS<br>PL MEMBER<br>FORCES                                                                                               | FOUNDN                                                                             |                                                                                                                           |
| n                                                                                                                                                             | о у                                                                                                                                                         | es ye                                                                                | es y                                                                                                                      | /es                                                                      | no n                                                                                                   | o no                                                                                                                          | no                                                                                 |                                                                                                                           |
| MAST L                                                                                                                                                        | OADING                                                                                                                                                      | ith no io                                                                            |                                                                                                                           |                                                                          |                                                                                                        |                                                                                                                               |                                                                                    |                                                                                                                           |
| ·                                                                                                                                                             |                                                                                                                                                             | ith no io                                                                            |                                                                                                                           |                                                                          |                                                                                                        |                                                                                                                               |                                                                                    |                                                                                                                           |
| MAST L                                                                                                                                                        | OADING                                                                                                                                                      | ith no id                                                                            |                                                                                                                           | LOAD                                                                     | FOR                                                                                                    | CES                                                                                                                           | МОМ                                                                                | ENTS                                                                                                                      |
| MAST L                                                                                                                                                        | OADING                                                                                                                                                      |                                                                                      |                                                                                                                           | LOAD<br>AZI                                                              |                                                                                                        | CES<br>DOWN<br>kip                                                                                                            | MOM<br>VERTICAL<br>ft-kip                                                          | ENTS<br>TORSNAL<br>ft-kip                                                                                                 |
| MAST L<br>LOAD<br>TYPE<br>C                                                                                                                                   | OADING<br>ELEV<br>ft<br>40.0                                                                                                                                | APPLYLC<br>RADIUS<br>ft<br>0.00                                                      | DAD.,AT<br>AZI<br>0.0                                                                                                     | AZI<br>0.0                                                               | HORIZ<br>kip<br>18.74                                                                                  | DOWN<br>kip<br>1.85                                                                                                           | VERTICAL<br>ft-kip<br>0.00                                                         | TORSNAL<br>ft-kip<br>0.00                                                                                                 |
| MAST L<br>LOAD<br>TYPE<br>C<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D                                              | OADING<br>ELEV<br>ft<br>40.0<br>35.0<br>35.0<br>30.0<br>20.0<br>20.0<br>0.0                                                                                 | APPLYLC<br>RADIUS<br>ft<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0 | DADAT<br>AZI<br>0.0<br>38.2<br>38.2<br>38.2<br>38.2<br>33.7<br>33.7<br>33.6                                               | AZI                                                                      | FOR<br>HORIZ<br>kip                                                                                    | DOWN<br>kip                                                                                                                   | VERTICAL<br>ft-kip                                                                 | TORSNAL<br>ft-kip                                                                                                         |
| MAST L<br>LOAD<br>TYPE<br>C<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>ANTENN                                                                                      | OADING<br>ELEV<br>ft<br>40.0<br>35.0<br>35.0<br>35.0<br>30.0<br>20.0<br>20.0<br>0.0<br>UA LOADI                                                             | APPLYLC<br>RADIUS<br>ft<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0 | DADAT<br>AZI<br>0.0<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2                                       | AZI<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0       | HORIZ<br>HORIZ<br>kip<br>18.74<br>0.63<br>0.63<br>0.58<br>0.58<br>0.58<br>0.61<br>0.62<br>0.64<br>0.64 | DOWN<br>kip<br>1.85<br>0.10<br>0.10<br>0.09<br>0.09<br>0.10<br>0.10<br>0.12<br>0.11                                           | VERTICAL<br>ft-kip<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.01<br>0.01<br>0.01 | TORSNAL<br>ft-kip<br>0.00<br>0.03<br>0.03<br>0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03                                     |
| MAST L<br>LOAD<br>TYPE<br>C<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>ANTENN                                                                                      | OADING<br>ELEV<br>ft<br>40.0<br>35.0<br>35.0<br>35.0<br>30.0<br>20.0<br>20.0<br>0.0<br>UA LOADI                                                             | APPLYLC<br>RADIUS<br>ft<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0 | DADAT<br>AZI<br>0.0<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2                                       | AZI<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0              | HORIZ<br>HORIZ<br>kip<br>18.74<br>0.63<br>0.63<br>0.58<br>0.58<br>0.58<br>0.61<br>0.62<br>0.64<br>0.64 | DOWN<br>kip<br>1.85<br>0.10<br>0.10<br>0.09<br>0.09<br>0.10<br>0.10<br>0.12<br>0.11                                           | VERTICAL<br>ft-kip<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.01<br>0.01<br>0.01 | TORSNAL<br>ft-kip<br>0.00<br>0.03<br>0.03<br>0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03                                     |
| MAST L<br>LOAD<br>TYPE<br>C<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>T<br>TYPE<br>STD+R                                                 | OADING<br>ELEV<br>ft<br>40.0<br>40.0<br>35.0<br>35.0<br>35.0<br>30.0<br>20.0<br>20.0<br>20.0<br>20.0<br>20.0<br>20.0<br>20                                  | APPLYLC<br>RADIUS<br>ft<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0 | DAD.,AT<br>AZI<br>0.0<br>38.2<br>38.2<br>38.2<br>38.2<br>33.7<br>33.7<br>33.7<br>33.6<br>33.3<br>ATTA<br>RAD<br>ft<br>4.4 | AZI<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0. | HORIZ<br>kip<br>18.74<br>0.63<br>0.63<br>0.58<br>0.61<br>0.62<br>0.64<br>0.64<br>0.64                  | DOWN<br>kip<br>1.85<br>0.10<br>0.10<br>0.09<br>0.09<br>0.10<br>0.10<br>0.10<br>0.12<br>0.11                                   | VERTICAL<br>ft-kip<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.01<br>0.01<br>0.01 | TORSNAL<br>ft-kip<br>0.00<br>0.03<br>0.03<br>0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03                            |
| MAST L<br>LOAD<br>TYPE<br>C<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>TYPE<br>STD+R<br>STD+R<br>STD+R<br>SUPPRE | OADING<br>ELEV<br>ft<br>40.0<br>35.0<br>35.0<br>30.0<br>20.0<br>20.0<br>20.0<br>20.0<br>0.0<br>IA LOADI<br>ELE<br>f<br>30.                                  | APPLYLC<br>RADIUS<br>ft<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0 | DAD.,AT<br>AZI<br>0.0<br>38.2<br>38.2<br>38.2<br>38.2<br>33.7<br>33.7<br>33.7<br>33.6<br>33.3<br>ATTA<br>RAD<br>ft<br>4.4 | AZI<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0. | HORIZ<br>kip<br>18.74<br>0.63<br>0.63<br>0.58<br>0.61<br>0.62<br>0.64<br>0.64<br>0.64                  | DOWN<br>kip<br>1.85<br>0.10<br>0.09<br>0.09<br>0.09<br>0.10<br>0.10<br>0.12<br>0.11<br>ANTEN<br>SHEAR<br>kip<br>-1.64         | VERTICAL<br>ft-kip<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.01<br>0.01<br>0.01 | TORSNAL<br>ft-kip<br>0.00<br>0.03<br>0.03<br>0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03 |
| MAST L<br>LOAD<br>TYPE<br>C<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>TYPE<br>STD+R<br>STD+R<br>STD+R<br>SUPPRE                | OADING<br>ELEV<br>ft<br>40.0<br>40.0<br>35.0<br>35.0<br>30.0<br>20.0<br>20.0<br>20.0<br>20.0<br>0.0<br>IA LOADI<br>ELE<br>f<br>30.<br>30.<br>30.<br>SS PRIN | APPLYLC<br>RADIUS<br>ft<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0 | DADAT<br>AZI<br>0.0<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2<br>38.2                                       | AZI<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0. | HORIZ<br>kip<br>18.74<br>0.63<br>0.63<br>0.58<br>0.58<br>0.61<br>0.62<br>0.64<br>0.64<br>0.64          | DOWN<br>kip<br>1.85<br>0.10<br>0.09<br>0.09<br>0.10<br>0.10<br>0.10<br>0.12<br>0.11<br>ANTEN<br>SHEAR<br>kip<br>-1.64<br>1.64 | VERTICAL<br>ft-kip<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.01<br>0.01<br>0.01 | TORSNAL<br>ft-kip<br>0.00<br>0.03<br>0.03<br>0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03 |

MAST LOADING \_\_\_\_\_\_ .....FORCES..... MOMENTS..... HORIZ DOWN VERTICAL TORSNAL LOAD ELEV APPLY..LOAD..AT LOAD TYPE RADIUS AZI AZI ft ft kip kip ft-kip ft-kip 40.0 0.00 0.0 0.0 4.11 5.97 0.00 0.00 С 40.0 0.00 37.4 0.0 0.14 0.35 0.10 0.01 D 37.4 0.00 0.14 0.10 D 35.0 0.0 0.35 0.01 35.0 0.00 37.4 0.13 0.32 0.10 0.01 D 0.0 37.4 35.0 0.32 30.0 D 0.00 0.0 0.13 0.10 0.01 30.0 0.00 0.13 0.06 D 0.0 -0.0120.0 35.0 0.13 0.00 0.35 0.06 -0.01 D 0.0 20.0 0.00 0.14 0.40 0.06 -0.01 D 34.8 0.0 0.13 0.14 0.07 0.07 -0.01 10.0 0.00 34.1 0.0 0.41 D 0.00 33.4 0.44 10.0 0.0 -0.01 D 5.0 0.00 33.4 0.0 0.14 0.44 0.07 -0.01D 0.00 0.46 -0.01 32.5 0.0 0.15 0.07 D 0.0 0.00 32.5 0.0 0.15 0.46 0.07 -0.01 D ANTENNA LOADING \_\_\_\_\_ .....ANTENNA FORCES..... ..... ANTENNA..... ATTACHMENT ELEV AXIAL SHEAR GRAVITY TORSION TYPE AZI RAD AZI ft kip kip kip ft-kip ft 30.0 90.0 4.4 120.0 -0.55 STD+R 0.08 -0.23 0.67 30.0 270.0 STD+R 4.4 240.0 0.08 0.23 0.67 0.55 SUPPRESS PRINTING \_\_\_\_\_ ...FOR THIS LOADING... .....MAXIMUMS..... LOADS DISPL MEMBER FOUNDN ALL DISPL MEMBER FOUNDN INPUT FORCES LOADS FORCES LOADS no yes yes yes no no no no 

MAXIMUM MAST DISPLACEMENTS:

| ELEV<br>ft                                                 |                                                                                                         | EAST                                                                                                    |                                                                                                 | TILTS (<br>NORTH                                                                                        | • •                                                                                                     | TWIST<br>DEG                                                                                |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 40.0<br>35.0<br>25.0<br>20.0<br>15.0<br>10.0<br>5.0<br>0.0 | -0.246 A<br>-0.196 A<br>-0.151 A<br>-0.104 A<br>-0.071 A<br>-0.043 A<br>-0.023 A<br>-0.007 A<br>0.000 A | -0.256 D<br>-0.204 D<br>-0.157 D<br>-0.109 D<br>-0.074 D<br>-0.045 D<br>-0.024 D<br>-0.027 D<br>0.000 A | 0.001 i<br>0.001 j<br>0.001 i<br>0.001 d<br>0.001 d<br>0.001 z<br>0.000 d<br>0.000 d<br>0.000 A | -0.553 A<br>-0.541 A<br>-0.499 A<br>-0.425 A<br>-0.306 A<br>-0.237 A<br>-0.164 A<br>-0.083 A<br>0.000 A | -0.571 D<br>-0.560 D<br>-0.517 D<br>-0.441 D<br>-0.319 D<br>-0.248 D<br>-0.172 D<br>-0.087 D<br>0.000 A | -0.145 E<br>-0.144 E<br>-0.143 E<br>-0.099 E<br>-0.067 E<br>-0.041 E<br>-0.019 E<br>0.000 A |

# MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

ELEV AZI TYPE .....BEAM DEFLECTIONS (deg)..... PITCH ROLL ft deg YAW TOTAL 0.499 A 30.0 90.0 STD+R 0.143 E -0.517 D 0.499 A 30.0 270.0 STD+R -0.499 A 0.143 E 0.517 D 0.499 A

MAXIMUM TENSION IN MAST MEMBERS (kip)

| ELEV<br>ft | LEGS     | DIAG               | HORIZ  | BRACE  |
|------------|----------|--------------------|--------|--------|
| 40.0       | 10.45 м  | <br>9.96 т         | 2.84 G | 0.00 A |
| 35.0       | 36.56 0  | 11.30 в            | 0.40 A | 0.00 A |
| 30.0       | 66.69 0  | 16.83 P            | 0.22 W | 0.00 A |
| 25.0       | 105.47 Q | 18.95 D            | 0.45 A | 0.00 A |
| 20.0       | 138.59 Q | 13.77 Q            | 1.47 N | 0.00 A |
| 15.0       | 168.13 0 | 13.23 D            | 0.32 E | 0.00 A |
| 10.0       | 192.54 0 | 13.23 D<br>12.82 P | 0.06 W | 0.00 A |
| 5.0        | 218.39 Q | 12.02 T            | 0.22 E | 0.00 A |
| 0.0        |          |                    | 0.00 A | 0.00 A |

# MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

| ELEV<br>ft | LEGS          | DIAG                 | HORIZ   | BRACE  |
|------------|---------------|----------------------|---------|--------|
| 40.0       | 11 07 c       | 10 02 p              | -3.10 M | 0.00 A |
| 35.0       | -11.92 G      | -10.03 B             | -0.34 W | 0.00 A |
| 30.0       | -38,43 K      | -11.26 T             | -0.28 A | 0.00 A |
| 25.0       | -68.86 K      | -17.62 D<br>-18.12 P | -0.40 W | 0.00 A |
| 20.0       | -109.85 K     | -18.12 P<br>-13.76 D | -2.17 A | 0.00 A |
| 15.0       | -142.32 K     | -13.13 P             | -0.31 W | 0.00 A |
| 10.0       | -172.58 К<br> | -13.13 P<br>         | -0.06 A | 0.00 A |
| 5.0        |               |                      | -0.21 W | 0.00 A |
| 0.0        | -223.35 К     | -12.72 P             | 0.00 A  | 0.00 A |

# MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

|         | LOADC    | OMPONENTS |           | TOTAL   |
|---------|----------|-----------|-----------|---------|
| NORTH   | EAST     | DOWN      | UPLIFT    | SHEAR   |
| 26.11 G | -24.30 Q | 234.93 К  | -229.92 Q | 27.41 К |

# MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

| H<br>NORTH |       |      |      | DOWNOVERTURNING<br>NORTH EAST TOTAL<br>@ 299.7 |         |        |       |
|------------|-------|------|------|------------------------------------------------|---------|--------|-------|
| -47.0      | -48.6 | 49.1 | 22.7 | -1342.7                                        | -1403.0 | 1407.1 | -15.7 |
| A          | D     | E    | Z    | A                                              | D       | E      | E     |

\_\_\_\_\_

| Latticed Tower Analysis (Unguyed)<br>Processed under license at: | (c)2013 Guymast Inc. 416-736-7453 |
|------------------------------------------------------------------|-----------------------------------|
| Sabre Towers and Poles                                           | on: 21 apr 2017 at: 9:09:27       |
|                                                                  |                                   |

# \*\*\*\*\*\*\*\*\*

\* Only 1 condition(s) shown in full \* Some wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A \_\_\_\_\_

60 mph wind with no ice. Wind Azimuth: 00

MAST LOADING 

| LOAD<br>TYPE | ELEV<br>ft                                          | APPLYLOA<br>RADIUS<br>ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ADAT<br>AZI                                                  | LOAD<br>AZI                                                      | HORIZ<br>kip                                                                                                                | 5<br>DOWN<br>kip                                                                                    | MOME<br>VERTICAL<br>ft-kip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NTS<br>TORSNAL<br>ft-kip                                                                                 |
|--------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| С            | 40.0                                                | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0                                                          | 0.0                                                              | 2.64                                                                                                                        | 2.06                                                                                                | 0,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.00                                                                                                     |
|              | 40.0<br>35.0<br>30.0<br>30.0<br>20.0<br>20.0<br>5.0 | $\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 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| D<br>D       | $5.0 \\ 0.0$                                        | $0.00 \\ 0.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 33.4<br>33.4                                                 | 0.0                                                              | 0.09<br>0.09                                                                                                                | $\substack{\textbf{0.13}\\\textbf{0.13}}$                                                           | $\substack{0.01\\0.01}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $-0.01 \\ -0.01$                                                                                         |

#### ANTENNA LOADING \_\_\_\_

| A              | NTENNA.    |               | ATTA      | CHMENT         |              | ANTENN        | A FORCES       |                   |
|----------------|------------|---------------|-----------|----------------|--------------|---------------|----------------|-------------------|
| TYPE           | ELEV<br>ft | AZI           | RAD<br>ft | AZI            | AXIAL<br>kip | SHEAR<br>kip  | GRAVITY<br>kip | TORSION<br>ft-kip |
| STD+R<br>STD+R |            | 90.0<br>270.0 |           | 120.0<br>240.0 | 0.07<br>0.07 | -0.22<br>0.22 | 0.20<br>0.20   | -0.49<br>0.49     |

SUPPRESS PRINTING \_\_\_\_\_

|       | FOR   | THIS LO | ADING |     | MAX   | IMUMS  |       |  |
|-------|-------|---------|-------|-----|-------|--------|-------|--|
| LOADS | DISPL |         |       | ALL | DISPL | MEMBER |       |  |
| INPUT |       | FORCES  | LOADS |     |       | FORCES | LOADS |  |
|       |       |         |       |     |       |        |       |  |
| no    | ves   | ves     | ves   | no  | no    | no     | no    |  |
| 110   | ,     | ,       | ,     |     |       |        | 110   |  |

#### MAXIMUM MAST DISPLACEMENTS:

| ELEV | DE    | FLECTIONS ( | ft)  | TILTS ( | (DEG) | TWIST |
|------|-------|-------------|------|---------|-------|-------|
| ft   | NORTH | EAST        | DOWN | NORTH   | EAST  | DEG   |

\_\_\_\_\_\_\_\_

| 40.0 | 0.036 G | 0.036 J | 0.000 L | 0.080 G | 0,080 J | -0.019 E |
|------|---------|---------|---------|---------|---------|----------|
| 35.0 | 0.029 G | 0.029 J | 0.000 L | 0.078 G | 0.079 J | -0.019 E |
| 30.0 | 0.022 G | 0.022 J | 0.000 L | 0.072 G | 0.073 J | -0.019 E |
| 25.0 | 0.015 G | 0.015 J | 0.000 F | 0.062 G | 0.062 J | -0.016 E |
| 20.0 | 0.010 G | 0.010 J | 0.000 F | 0.045 G | 0.045 J | -0.013 E |
| 15.0 | 0.006 G | 0.006 J | 0.000 в | 0.035 G | 0.035 J | -0.009 E |
| 10.0 | 0.003 G | 0.003 J | 0.000 н | 0.024 G | 0.024 J | -0.005 E |
| 5.0  | 0.001 G | 0.001 J | 0.000 н | 0.012 G | 0.012 J | -0.002 E |
| 0.0  | 0.000 A  |

#### MAXIMUM ANTENNA AND REFLECTOR ROTATIONS: \_\_\_\_\_

| ELEV | AZI | TYPE  | В        | EAM DEFLECT | TONS (deg). | TOTAL   |
|------|-----|-------|----------|-------------|-------------|---------|
| ft   | deg | *     | РІТСН    | YAW         | ROLL        |         |
| 30.0 |     | STD+R | -0.072 G | 0.019 E     | 0.073 J     | 0.072 G |
| 30.0 |     | STD+R | 0.072 G  | 0.019 E     | -0.073 J    | 0.072 G |

#### MAXIMUM TENSION IN MAST MEMBERS (kip)

| ELEV<br>ft | LEGS    | DIAG   | HORIZ  | BRACE  |
|------------|---------|--------|--------|--------|
| 40.0       |         |        | 0.43 C | 0.00 A |
| 35.0       | 0.86 A  | 1.38 F | 0.07 A | 0.00 A |
| 30.0       | 4.33 E  | 1.68 L | 0.03 K | 0.00 A |
| 25.0       | 8.41 E  | 2.28 D | 0.08 A | 0.00 A |
| 20.0       | 13.61 E | 2.71 J | 0.16 L | 0.00 A |
| 15.0       | 18.32 E | 1.90 E | 0.05 E | 0.00 A |
| 10.0       | 22.25 E | 1.86 J | 0.01 K | 0.00 A |
| 5.0        | 25.62 E | 1.77 E | 0.03 E | 0.00 A |
| 0.0        | 29.08 E | 1.79 J | 0.00 A | 0.00 A |

#### MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

-----

| ELEV<br>ft | LEGS     | DIAG    | HORIZ   | BRACE  |
|------------|----------|---------|---------|--------|
| 40.0       | -2.28 G  | -1.48 L | -0.40 A | 0.00 A |
| 35.0       | -6.34 К  | -1.62 F | -0.04 K | 0.00 A |
| 30.0       | -10.90 к | -2.50 J | -0.04 A | 0.00 A |
| 25.0       | -17.09 К | -2.44 ] | -0.05 К | 0.00 A |
| 20.0       | -21.85 K | -1.99 к | -0.37 A | 0.00 A |
| 15.0       | -26.56 К | -1.79 D | -0.04 К | 0.00 A |
| 10.0       | -30.30 K | -1.84 к | -0.01 A | 0.00 A |
| 5.0        | -34.43 к | -1.75 D | -0.03 K | 0.00 A |
| 0.0        |          |         | 0.00 A  | 0.00 A |

| MAXIMUM IN  |          | - FOUNDATI      |                  | : (kip)    |                  |                      |                |           |
|-------------|----------|-----------------|------------------|------------|------------------|----------------------|----------------|-----------|
|             |          | -LOADCO<br>EAST | MPONENTS<br>DOWN |            | LIFT             | TOTAL<br>SHEAR       |                |           |
| 3.99        | G        | 3.64 к          | 36.22            | к -3       | 0.66 E           | 4.13                 | к              |           |
| MAXIMUM TC  | TAL LOAI | DS ON FOUN      | IDATION :        | (kip & k   | ip-ft)<br>====== |                      |                |           |
| HC<br>NORTH | EAST     | TOTAL<br>149.7  | DOWN             | NORTH      |                  | FURNING<br>EAST<br>@ | TOTAL<br>149.7 | TORSION   |
| 7.0<br>G    | 6.8<br>J | 7.3<br>L        | 7.2<br>B         | 197.1<br>G | 19               | 96.6<br>J            | 205.4<br>L     | -2.1<br>E |

The Eyak Corporation 901 LeFevre Street PO Box 340 Cordova, AK 99574 Email: abutler@eyakcorp.com Toll Free: (800) 478-7161 Phone. (907) 424-7161 Fax: (907) 424-5161



April 14, 2017

To Whom It May Concern,

Cordova Telephone Cooperative is authorized to build a cell phone tower and lay cable on land owned by The Eyak Corporation.

Please contact me at the above telephone number with any further questions.

Thank you, GWGMU BUHW Angela Butler

Angela Butler General Manager, Cordova Operations

Federal Communications Commission Wireless Telecommunications Bureau



.. . .....

**Spectrum Leasing Arrangement** 

ATTN: PAUL KELLY CORDOVA WIRELESS COMMUNICATIONS, LLC 621 2ND STREET CORDOVA, AK 99574

Date: 04/15/2015 Reference Number: 5980516

This approval allows the Lessee to lease spectrum from the Licensee pursuant to the provisions and requirements of 'Subpart X of Part 1 of the Commission's Rules, 47 C.F.R. Part 1, and as described in the associated spectrum leasing application or notification.

| Type of Lease Arrangement | Lease Term | Lease Identifier |
|---------------------------|------------|------------------|
| Spectrum Manager Lease    | Long Term  | L000015992       |

| Lease Grant/Accepted Date | Lease Commencement Date | Lease Expiration Date |
|---------------------------|-------------------------|-----------------------|
| 04/14/2015                | 04/09/2015              | 06/13/2019            |

| Call Sign | Radio Service                             |
|-----------|-------------------------------------------|
| WQIZ597 ( | WY - 700 MHz Lower Band (Blocks A, B & E) |

| Lessee Information                                                                                            |  |
|---------------------------------------------------------------------------------------------------------------|--|
| 0004333589<br>Cordova Wireless Communications, LLC<br>Attn: Paul Kelly<br>621 2nd Street<br>Cordova, AK 99574 |  |

| ; |                      |
|---|----------------------|
|   | Licensee Information |
| 1 |                      |
|   |                      |

0014980726 AT&T Mobility Spectrum LLC Attn: Reginald Youngblood 3300 E. Renner Road, B3132 Richardson, TX 75082

Page 1 of 2

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| Geographically-Licensed Services |                   |               |  |  |  |
|----------------------------------|-------------------|---------------|--|--|--|
| Market Number                    | Market Name       | Channel Block |  |  |  |
| CMA316                           | Alaska 2 - Bethel | В             |  |  |  |

#### Condition:

This lease may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum associated with this leasing agreement, 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.

#### 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.

Page 2 of 2

# **37 of 50**

ULS License - Cellular License - WPOL372 - Cordova Wireless Co...

http://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp;JSESSIONID...

# ULS License Cellular License - WPOL372 - Cordova Wireless Communications, LLC

| Call Sign                                                                                                      | WPOL372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Radio Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CL - Cellular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |
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| Status                                                                                                         | Active                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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ULS License - Cellular License - WPYE240 - Cordova Wireless Co...

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# ULS License Cellular License - WPYE240 - Cordova Wireless Communications, LLC

| Call Sign                                                                                                                                     | WPYE240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Radio Service  | CL - Cellular                                                                                                                                                                                                                                                                                                                                         |  |  |
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| Status                                                                                                                                        | Active                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Auth Type      | Regular                                                                                                                                                                                                                                                                                                                                               |  |  |
| Market                                                                                                                                        | (a) An an approximation of the second sec |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Market                                                                                                                                        | CMA316 - Alaska 2 - Bethel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Channel Block  | A                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Submarket                                                                                                                                     | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Phase          | 2                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Dates                                                                                                                                         | na se a collectiva de la constante de la const<br>Relación de la constante de la c<br>Constante de la constante de la                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | en en successione en la presentación de la servición de la construction de la construcción de la construcción d<br>Exemployeu de la construcción de la<br>Exemployeu de la construcción de la |  |  |
| Grant                                                                                                                                         | 09/04/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Expiration     | 07/25/2023                                                                                                                                                                                                                                                                                                                                            |  |  |
| Effective                                                                                                                                     | 03/21/2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cancellation   |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Five Year Bui                                                                                                                                 | ldout Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Control Point<br>None                                                                                                                         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Licensee                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
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| Licensee                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Cordova Wireless Communications, LLCP: (907)424-2245PO Box 438F: (907)424-2344621 2nd StreetE: paul@ctcak.netCordova, AK 99574ATTN Paul Kelly |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Contact                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Herman & Whit<br>Kenneth C John<br>3204 Tower Oa<br>Rockville, MD 2                                                                           | nson<br>aks Blvd., Suite 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F:(202)706-605 | P:(202)827-0664<br>F:(202)706-6056<br>E:ken@hermanwhiteaker.com                                                                                                                                                                                                                                                                                       |  |  |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Ownershin ar                                                                                                                                  | od Qualifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Ownership and Qualifications Radio Service Type Mobile                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Regulatory Status Common Carrier Interconnected Yes                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Alien Ownership                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| The Applicant answered "No" to each of the Alien Ownership questions.                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Basic Qualifications<br>The Applicant answered "No" to each of the Basic Qualification questions.                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Demographic                                                                                                                                   | S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                       |  |  |

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| Race      |        |
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4/25/17, 4:17 PM



PO Box 459, 611 Second St., Cordova, Alaska 99574 (907) 424-2345 Fax (907) 424-2344

City of Cordova PO Box 1210 Cordova, AK 99574

April 13, 2017

**RE:** Conditional Use Permit Application

Cordova Telephone Communications, Inc. does agree to remove the telecommunications tower located at Mt. Eyak and restore the site to its original condition within one hundred and eighty days should the telecommunications tower be unused for a period of twelve consecutive months.

If the tower is not removed in the time frame referenced above, the city may remove the telecommunications tower at the cost of Cordova Telephone Cooperative, Inc.

leain Ober

Signature

<u>4.21.17</u> Date

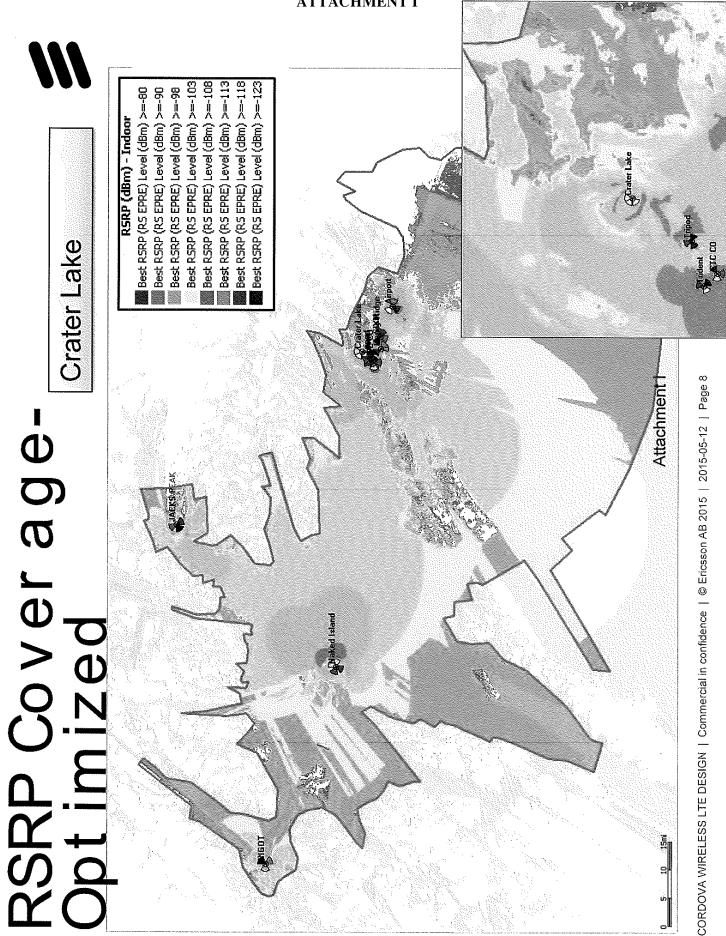
State of Alaska

County of Valdez-Cordova 3rd judicial district

This instrument was signed before me on April 21, 2017-

By William ( Print name of signer(s) Notary Signatul

Affix seal/stamp as close to signature as possible.





# AGENDA ITEM # 9b Planning Commission Meeting Date: 8/8/2017

# PLANNING COMMISSION COMMUNICATION FORM

FROM: Planning Staff

DATE: 8/2/17

ITEM: Resolution 17-02 – Capital Improvement List

NEXT STEP: Pass Resolution

INFORMATION MOTION X RESOLUTION

# I. <u>REQUEST OR ISSUE:</u>

The Planning Commission is required by the City Code to:

Submit annually to the city council, not less than ninety days prior to the beginning of the budget year, a list of recommended capital improvements which in the opinion of the commission are necessary or desirable to be constructed during the forthcoming three-year period. Such list shall be arranged in order of preference, with recommendations as to which projects shall be constructed in which year (CMC 3.40.080 B).

# II. <u>RECOMMENDED ACTION / NEXT STEP:</u>

The current draft of Resolution 17-02 contains last years' list. After making the motion to approve the resolution, the commission can discuss and make changes to the list. Ideally, the commission should prepare a new list and amend the resolution once.

"I move to approve Resolution 17-02."

# III. FISCAL IMPACTS:

The city is dealing with financial challenges which will likely continue to limit capital expenditures for the 2017 budget.

## IV. BACKGROUND INFORMATION:

Last year's Capital Improvement List recommended to City Council by Resolution 16-04 was as follows:

- 1. Comprehensive Plan Update \$75,000
- 2. To create Shovel Ready Projects that provide for public safety and ADA accessible sidewalks which to be used in grant/loan applications. Design streets and sidewalks on Railroad Avenue from Nicholoff to Council and Council from Railroad to First Street \$25,000-\$35,000
  - Shovel-ready design
  - Includes ADA sidewalks and drainage
  - Nicholoff to Water currently has drawings, but need update
    - Water to Council needs drawings
- 3. To create a Shovel Ready Project that provides for public safety, additional parking and ADA accessible sidewalks to be used in grant/loan applications. Design parking and walkway on north side of Harbor \$122,013
  - Shovel-ready design
  - Walkway to meet ADA standards
  - To extend in harbor 25 feet
  - Includes contract services from engineer
  - Based on the cost from South Fill report with engineering at 15% of project cost
- 4. Addressing contract
- 5. To create Shovel Ready Projects that provide for public safety and ADA accessible sidewalks which to be used in grant/loan applications. Design streets and sidewalks on Second Street from Council to Adams \$70,000-\$100,000
  - Shovel-ready design
  - Includes ADA sidewalks and drainage
  - Survey work completed
  - Extensive drainage work
- 6. To create Shovel Ready Projects that provide for public safety and ADA accessible sidewalks which to be used in grant/loan applications. Design streets and sidewalks on Adams Avenue from Second to Fifth \$25,000-\$35,000
  - Shovel-ready design
  - Includes ADA sidewalks and drainage
  - Survey work completed
- 7. Code updates \$25,000
- 8. Water/Sewer infrastructure as needed

# V. <u>LEGAL ISSUES:</u>

No legal review required.

# VI. <u>CONFLICTS OR ENVIRONMENTAL ISSUES:</u>

N/A

# VII. <u>SUMMARY AND ALTERNATIVES:</u>

The 2016 CIP list from the Planning Commission was submitted to City Council. The 2017 budget process was challenging, and few capital projects were funded. Despite the lack of funding, staff and the commission have reviewed Title 16 of the municipal code and have it ready for final attorney review and ordinance. Staff have also pursued funding opportunities for the shovel ready projects. Water infrastructure projects have also been moving forward with the Post LT2 project. Staff completed changing the name of a street and are pursuing other addressing issues in the city.

## CITY OF CORDOVA, ALASKA PLANNING COMMISSION RESOLUTION 17-02

### A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF CORDOVA, ALASKA, RECOMMENDING A CAPITAL IMPROVEMENT LIST TO THE CITY COUNCIL OF THE CITY OF CORDOVA, ALASKA

**WHEREAS,** the City of Cordova's Planning Commission is directed by Cordova Municipal Code 3.40.080(E) to Submit annually to the City Council, not less than ninety days prior to the beginning of the budget year, a list of recommended capital improvements which in the opinion of the commission are necessary or desirable to be constructed during the forthcoming three-year period. Such list shall be arranged in order of preference, with recommendations as to which projects shall be constructed in which year; and

WHEREAS, the City of Cordova's Planning Commission has identified and prioritized a Capital Improvement List that will benefit the citizens of Cordova; and

WHEREAS, the City of Cordova's Planning Commission has identified the following Capital Improvement List as being critical to the future wellbeing and economy of Cordova and the surrounding area:

- 1. Comprehensive Plan Update \$75,000
- 2. To create Shovel Ready Projects that provide for public safety and ADA accessible sidewalks which to be used in grant/loan applications. Design streets and sidewalks on Railroad Avenue from Nicholoff to Council and Council from Railroad to First Street \$25,000-\$35,000
  - Shovel-ready design
  - Includes ADA sidewalks and drainage
  - Nicholoff to Water currently has drawings, but need update
  - Water to Council needs drawings
- 3. To create a Shovel Ready Project that provides for public safety, additional parking and ADA accessible sidewalks to be used in grant/loan applications. Design parking and walkway on north side of Harbor \$122,013
  - Shovel-ready design
  - Walkway to meet ADA standards
  - To extend in harbor 25 feet
  - Includes contract services from engineer
  - Based on the cost from South Fill report with engineering at 15% of project cost
- 4. Addressing contract
- 5. To create Shovel Ready Projects that provide for public safety and ADA accessible sidewalks which to be used in grant/loan applications. Design streets and sidewalks on Second Street from Council to Adams \$70,000-\$100,000
  - Shovel-ready design
  - Includes ADA sidewalks and drainage
  - Survey work completed
  - Extensive drainage work
- 6. To create Shovel Ready Projects that provide for public safety and ADA accessible sidewalks which to be used in grant/loan applications. Design streets and sidewalks on Adams Avenue from Second to Fifth \$25,000-\$35,000
  - Shovel-ready design
  - Includes ADA sidewalks and drainage

# 47 of 50

- Survey work completed
- 7. Code updates \$25,000
- 8. Water/Sewer infrastructure as needed

**NOW, THEREFORE BE IT RESOLVED THAT** the Planning Commission of the City of Cordova, Alaska hereby recommend a capital improvement list to the City Council of the City of Cordova, Alaska.

# PASSED AND APPROVED THIS 8<sup>TH</sup> DAY OF AUGUST, 2017

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| ATTEST: | Tom McGann, Chair<br>Samantha Greenwood, City Planner |
|---------|-------------------------------------------------------|
|         |                                                       |
|         |                                                       |

**2017 AUGUST** 

| PLANNING COMMISSION REGULAR MEETING<br>AUGUST 8, 2017 |                                                                                                                                                                                     |                                                                                                                                                                                                     |    |                                                                         |                                                                                                                                                                          |    |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Saturday                                              | 05                                                                                                                                                                                  | 12                                                                                                                                                                                                  | 61 | 26                                                                      | 02                                                                                                                                                                       | 60 |
| Friday                                                | 6                                                                                                                                                                                   | Ξ                                                                                                                                                                                                   | 18 | 55                                                                      | 01                                                                                                                                                                       | 08 |
| Thursday                                              | 03                                                                                                                                                                                  | 10                                                                                                                                                                                                  | 17 | 24<br>6:00 PM - CCMC Board Regular<br>Meeting<br>(CCMC Conference Room) | 31                                                                                                                                                                       | 07 |
| Wednesday                                             | 02<br>6:00 PM - City Council Work<br>Session<br>( <i>Cordova Center Rooms A &amp; B</i> )<br>7:00 PM - City Council Regular<br>Meeting<br>( <i>Cordova Center Rooms A &amp; B</i> ) | 09<br>7:00 PM - Harbor Commission<br>Regular Meeting<br>(Cordova Center Room B)<br>7:00 PM - School Board Regular<br>Meeting<br>(High School Library)                                               | 16 | 23                                                                      | 30                                                                                                                                                                       | 06 |
| Tuesday                                               | 10                                                                                                                                                                                  | 08<br>6:30 PM - Planning Commission<br>Public Hearing<br>( <i>Cordova Center Rooms A &amp; B</i> )<br>6:45 PM - Planning Commission<br>Regular Meeting<br>( <i>Cordova Center Rooms A &amp; B</i> ) | 15 | 52                                                                      | 29<br>6:00 PM - City Council Work<br>Session ( <i>TBD</i> )<br>6:00 PM - Parks and Recreation<br>Commession Regular Meeting<br>( <i>Cordova Center Rooms A &amp; B</i> ) | 05 |
| Monday                                                | 31                                                                                                                                                                                  | 07                                                                                                                                                                                                  | 14 | 21                                                                      | 28                                                                                                                                                                       | 04 |
| Sunday                                                | 30                                                                                                                                                                                  | 90                                                                                                                                                                                                  | 13 | 20                                                                      | 27                                                                                                                                                                       | 03 |

# PLANNING COMMISSION REGULAR MEETING

# **2017 SEPTEMBER**

| PLANNING COMMISSION REGULAR MEETING<br>AUGUST 8, 2017 |    |                                                                                 |                                                                                                                                                       |                                                                                        |                                                                                                    |      |
|-------------------------------------------------------|----|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------|
| Saturday                                              | 02 | 60                                                                              | 1e                                                                                                                                                    | 23                                                                                     | 30                                                                                                 | 07   |
| Friday                                                | 10 | 08                                                                              | <u>5</u>                                                                                                                                              | 22                                                                                     | 29                                                                                                 | 06   |
| Thursday                                              | 31 | 07                                                                              | 4<br>4                                                                                                                                                | 21                                                                                     | 28<br>6:00 PM - CCMC Board Regular<br>Meeting<br>(CCMC Conference Room)                            | 0.51 |
| Wednesday                                             | 30 | 06<br>7:00 PM - City Council Regular<br>Meeting<br>(Cordova Center Rooms A & B) | 13<br>7:00 PM - Harbor Commission<br>Regular Meeting<br>(Cordova Center Room B)<br>7:00 PM - School Board Regular<br>Meeting<br>(High School Library) | <b>20</b><br>7:00 PM - City Council Regular<br>Meeting<br>(Cordova Center Rooms A & B) | 27                                                                                                 | 04   |
| Tuesday                                               | 29 | 05                                                                              | 12<br>6:45 PM - Planning Commission<br>Regular Meeting<br>(Cordova Center Rooms A & B)                                                                | 19                                                                                     | 26<br>6:00 PM - Parks and Recreation<br>Commission Regular Meeting<br>(Cordova Center Rooms A & B) | 03   |
| Monday                                                | 28 | 04<br>City Closed - Labor Day                                                   | I                                                                                                                                                     | 18                                                                                     | 25                                                                                                 | 02   |
| Sunday                                                | 27 | 03                                                                              | 10                                                                                                                                                    | 17                                                                                     | 24                                                                                                 | 01   |