Si necesita ayuda para comprender esta informacion, por favor llame 503-588-6173

DECISION OF THE HISTORIC LANDMARKS COMMISSION

HISTORIC DESIGN REVIEW CASE NO. HIS16-33

APPLICATION NO.: 16-118830-DR

NOTICE OF DECISION DATE:

NOVEMBER 18, 2016

APPLICATION SUMMARY: A proposal to modify the existing wireless transmission facility by adding three radio heads behind existing antennas on an existing water tank (1925) and adding three radio heads to ground shelter.

REQUEST: Major historic design review of a proposal to modify the existing wireless transmission facility by adding three radio heads behind existing antennas on an existing water tank (1925) and adding three radio heads to ground shelter within the Willamette Heritage Center/ Thomas Kay Historic Park, individually listed on the National Register of Historic Places, on property zoned CR (Retail Commercial), and located at 1313 Mill Street SE, 97301; Marion County Assessor Map and Tax Lot number: 073W26BC04100.

APPLICANT: Natalie Erlund, FDH Velocitel for AT & T

LOCATION: 1313 Mill Street SE

CRITERIA: Salem Revised Code (SRC) Chapter 230.065

FINDINGS: The findings are listed in the attached staff report.

DECISION: The Historic Landmarks Commission **APPROVED** Historic Design

Review Case No. HIS16-33 with the following condition of approval:

Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennas and associated equipment shall not exceed the total number and cumulative size of the dishes, antennas and associated equipment currently approved for installation.

VOTE:

Yes 5

No 0

Absent 3 (Holton, Morris, Sund)

Andrew Hendrie, Chair

Historic Landmarks Commission

This Decision becomes effective on <u>December 6, 2016</u>. No work associated with this Decision shall start prior to this date unless expressly authorized by a separate permit, land use decision, or provision of the Salem Revised Code (SRC).

HIS16-33 November 18, 2016 Page 2

Application Deemed Complete:

October 27, 2016

Public Hearing Date:

November 17, 2016

Notice of Decision Mailing Date: November 18, 2016

Decision Effective Date:

December 6, 2016

State Mandate Date:

February 24, 2017

Case Manager: Kimberli Fitzgerald, AICP, Historic Preservation Officer kfitzgerald@citvofsalem.net, 503.540.2397

The rights granted by this decision must be exercised by **December 6, 2018**, or this approval shall be null and void. A copy of the decision is attached.

This decision is final unless written appeal from an aggrieved party is filed with the City of Salem Planning Division, Room 305, 555 Liberty Street SE, Salem OR 97301, no later than 5:00 p.m., December 5, 2016.

Any person who presented evidence or testimony at the hearing may appeal the decision. The notice of appeal must contain the information required by SRC 300.1020 and must state where the decision failed to conform to the provisions of the applicable code section, SRC Chapter 230. The appeal must be filed in duplicate with the City of Salem Planning Division. The appeal fee must be paid at the time of filing. If the appeal is untimely and/or lacks the proper fee, the appeal will be rejected. The Hearings Officer will review the appeal at a public hearing. After the hearing, the Hearings Officer may amend, rescind, or affirm the action, or refer the matter to staff for additional information.

The complete case file, including findings, conclusions and conditions of approval, if any, is available for review at the Planning Division office, Room 305, City Hall, 555 Liberty Street SE, during regular business hours.

http://www.cityofsalem.net/planning

\\allcitv\amanda\amandatestforms\4431Type2-3NoticeOfDecision.doc

AGENDA ITEM: 4.a

BEFORE THE SALEM HISTORIC LANDMARKS COMMISSION

MAJOR - Discretionary Review

Historic Review Case No. 16-33 / 16-118830-DR

TO: Historic Landmarks Commission

THROUGH: ALLisa Anderson-Ogilvie, AICP, Planning Administrator

FROM: Kimberli Fitzgerald, AICP, Historic Preservation Officer

HEARING DATE: November 17, 2016

CASE NO.: Historic Design Review Case No. HIS16-33

APPLICATION A proposal by AT & T to install six new remote radio

SUMMARY: heads for wireless service.

LOCATION: 1313 Mill Street SE (Marion County Assessor map and tax

lot numbers: 073W26BC/4100)

REQUEST Major historic design review of a proposal to modify the

existing wireless transmission facility by adding three radio heads behind existing antennas on an existing water tank (1925) and adding three radio heads to ground shelter within the Willamette Heritage Center/ Thomas Kay Historic Park, individually listed on the National Register of Historic Places, on property zoned CR (Retail Commercial), and located at 1313 Mill Street SE, 97301; Marion County Assessor Map and Tax Lot

number: 073W26BC04100.

APPLICANT: Natalie Erlund, FDH Velocitel for AT & T

APPROVAL CRITERIA: Salem Revised Code (SRC) Chapter 230

230.065 General Guidelines for Historic Contributing

Buildings

RECOMMENDATION: APPROVE with the following CONDITION:

Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennas and associated equipment shall not exceed the total number and cumulative size of the dishes, antennas and associated equipment currently approved for installation.

Historic Design Review Case 16-33 HLC Meeting of November 17, 2016 Page 2

PROCEDURES

Historic Landmarks Commission Review & Decision

Under Salem Revised Code (SRC) Chapter 230, no development permit shall be issued without the approval of the Historic Landmarks Commission (HLC). The HLC shall approve, conditionally approve, or deny the application on the basis of the projects conformity with the criteria. Conditions of approval, if any, shall be limited to project modifications required to meet the applicable criteria.

According to Salem Revised Code (SRC) 230.020(f), historic design review approval shall be granted if the application satisfied the applicable standards set forth in Chapter 230. The HLC shall render its decision supported by findings that explain conformance or lack thereof with relevant design standards, state the facts relied upon in rendering the decision, and explain justification for the decision.

120-Day Requirement

The state mandated 120-day deadline to issue a final local decision, including any local appeals in this case, is February 24, 2017, unless an extension is granted by the applicant.

APPLICATION PROCESSING

Subject Application

- 1. On October 6, 2016, the applicant submitted materials for a Major Historic Design Review to add six new remote radio heads on the Willamette Heritage Center site.
- 2. Additional materials were submitted on October 10, 2016 and October 12, 2016. The application was deemed complete for processing on October 27, 2016.

Public Notice

- 1. Notice of the public hearing was mailed to the owners of all property within 250 feet of the subject property on October 27, 2016 (Attachment A).
- 2. The property was posted in accordance with the posting provision outlined in SRC 300.620.

TESTIMONY RECEIVED

Neighborhood Association Comments

The subject property is located within the South East Salem Neighborhood Association (SESNA). As of the date of publication, no comments were received from the neighborhood association.

Historic Design Review Case 16-33 HLC Meeting of November 17, 2016 Page 3

Public Comments

All property owners within 250 feet of the subject property were mailed notification of the proposal on October 27, 2016. Notice of public hearing was also posted on the subject property. As of the date of publication, no comments have been received.

Public Agency Comments

As of the date of publication, no comments were received from any public agencies.

City Department Comments

The Building and Safety Division reviewed the proposal and indicated that the applicant must obtain required building permits.

FACTS & FINDINGS

Background Information

Thomas Kay Historic Park is individually listed on the National Register of Historic Places and includes Mission Mill (1889) and the associated structures, including the water tower (1925). While this tower is not the original 15,000 gallon redwood tower, this tower was constructed during the historic period and is a historic contributing accessory structure. The following early settlement houses are located on the site: Jason Lee House (1841), Methodist Parsonage (1841), John D. Boon House (1846), and Pleasant Grove Church (1858).

In 2013, the Historic Landmarks Commission (HLC) approved AT& T's proposal to remove three antennas, relocate three antennas and install nine new antenna panels on the water tower (HIS 13-16). Due to concerns about the cumulative adverse effect resulting from adding more antenna to the exterior of the water tower, the HLC added a condition of approval which limited future installation of antenna by this applicant to twelve. In 2014, the HLC approved the replacement of six antennas with three panel antennas on the water tower for Cricket, on the condition that any future replacement antenna would not exceed three by this applicant. These replacement antennas were not installed, and that decision expired on April 10, 2016. Cricket has since been acquired by AT & T. On July 21, 2016 the HLC approved HIS16-16 approving the replacement of six antennas and the removal of Cricket's six antennas. A total of twelve antennas and associated equipment are currently approved for installation on the water tower by this applicant with a condition of approval that future modifications to this antenna facility not exceed the total number and size of the antennas and associated equipment currently approved for installation.

Historic Design Review

SRC Chapter 230.065 specifies the standards and guidelines applicable to this project. The applicant is proposing to install six new remote radio heads and remove two equipment cabinets and remove and repurpose the mainline coax in the equipment shelter. Staff reviewed the project proposal and has the following findings for the applicable guidelines. For the applicant's full response, please refer to Attachment 3.

FINDINGS

(a) Except as otherwise provided in this Chapter, the property shall be used for its historic purpose, or for a similar purpose that will not alter street access, landscape design, entrance(s), height, footprint, fenestration, or massing.

Finding: The applicant will be removing two equipment cabinets and related coax, and installing three new remote radio heads (RRH's) behind existing antennas on the water tank and installing three new RRH's within the equipment shelter on the ground. While the original tower was not constructed for this use, the applicant has proposed to locate the RRH's behind the existing approved antennas minimizing the visual impact of this proposed alteration. The proposed new equipment does not significantly alter the appearance of the water tower. Staff recommends that the HLC find that this proposed use is compatible with the historic use and that this guideline has been met.

(b) Historic materials, finishes and distinctive features shall, when possible, be preserved and repaired according to historic preservation methods, rather than restored.

Finding: Staff recommends that the HLC find that there are no historic materials or features proposed for removal, reconstruction, or repair and that Guideline 230.065 (b) is not applicable to the evaluation of this proposal.

(c) Distinctive stylistic features or examples of skilled craftsmanship significance shall be treated with sensitivity.

Finding: Staff recommends that the HLC find that there are no distinctive stylistic features proposed for removal, reconstruction, or repair and Guideline 230.065 (c) does not apply to the evaluation of this proposal.

(d) Historic features shall be restored or reconstructed only when supported by physical or photographic evidence.

Finding: Staff recommends that the HLC find that there are no historic materials or features proposed for removal, reconstruction, or repair and that Guideline 230.065 (d) is not applicable to the evaluation of this proposal.

(e) Changes that have taken place to a historic resource over the course of time are evidence of the history and development of a historic resource and its environment, and should be recognized and respected. These changes may have acquired significance in their own right, and this significance should be recognized and respected.

Finding: Staff recommends that the HLC find that while the existing water tower is not the original tower, it was constructed in 1925, within the period of significance for the Thomas Kay Woolen Mill, and that the water tower is evidence of the history and development of the Thomas Kay Woolen Mill. The proposed addition of new equipment would not increase the total number of

Historic Design Review Case 16-33 HLC Meeting of November 17, 2016 Page 5

equipment already on the tower, and the removal of the two existing equipment cabinets and location of 3 of the RRH's within the equipment shelter minimizes the visual impact to the tower and the adjacent Mill building and surrounding site. Staff recommends that the HLC find that this Guideline has been met.

(f) Additions and alterations to a historic resource shall be designed and constructed to minimize changes to the historic resource.

Finding: Locating three of the proposed RRH's behind the existing antennae on the tower and three within the equipment shelter, the proposed new RRH's will not be visible on the water tower. Additionally, the removal of the equipment cabinets results in a reduction of the overall equipment area (1,622 sq inches). The addition of the new RRH's will not be visible, and there will not be an adverse visual impact due to their addition. Staff recommends that the HLC find that the installation of the RRH's is compatible with the size and scale of the water tower and the surrounding buildings within the historic Thomas Kay Historic Park, and that SRC 230.065(f) has been met.

(g) Additions and alterations shall be constructed with the least possible loss of historic materials and so that significant features are not obscured, damaged, or destroyed.

Finding: While a total of twelve antennas have been approved for installation on the water tower, AT & T's current configuration only requires a total of nine antennas along with the reconfigured and relocated remote radio heads. This configuration and the smaller size of the remote radio heads ensures that the significant character defining features of the water tower are not obscured. Should the current proposal be approved by the HLC, the water tower would have a total of nine antennas with nine associated RRH's. Three RRH's would be located within the equipment shelter on the ground, meeting the applicable condition of approval. While the current proposal does not exceed a total of twelve antennas, the HLC has made it clear that their intent is to limit the cumulative adverse impact of too much wireless equipment attached to this historic resource. Therefore in order to continue to limit the cumulative adverse effect of future wireless modification proposals on this resource, staff recommends that the HLC adopt the following CONDITION of APPROVAL:

- Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennas and associated equipment shall not exceed the total number and cumulative size of the dishes, antennas and associated equipment currently approved for installation.
- (h) Structural deficiencies in a historic resource shall be corrected without visually changing the composition, design, texture or other visual qualities.

Finding: Staff recommends that the HLC find that the proposal does not include any plans to correct structural deficiencies, and that Guideline 230.065 (h) does not apply to the evaluation of this proposal.

(i) Excavation or re-grading shall not be allowed adjacent to or within the site of a historic resource which could cause the foundation to settle, shift, or fail, or have a

Historic Design Review Case 16-33 HLC Meeting of November 17, 2016 Page 6

similar effect on adjacent historic resources.

Finding: Staff recommends that the HLC find that the proposal does not include any plans for excavation or regrading, and that Guideline 230.065 (i) does not apply to the evaluation of this proposal.

RECOMMENDATION

Based upon the information presented in the application, plans submitted for review, and findings as presented in this staff report, staff recommends that the Historic Landmarks Commission APPROVE the proposal with the following CONDITION:

Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennas and associated equipment shall not exceed the total number and cumulative size of the dishes, antennas and associated equipment currently approved for installation.

DECISION ALTERNATIVES

- 1. APPROVE the proposal as submitted by the applicant and indicated on the drawings.
- 2. APPROVE the proposal with conditions to satisfy specific guideline(s).
- 3. DENY the proposal based on noncompliance with identified guidelines in SRC 230, indicating which guideline(s) is not met and the reason(s) the guideline is not met.

Attachments: A. Hearing Notice and Vicinity Map

- B. Excerpt from National Register Historic Resource Document
- C. Applicant's Submittal Materials
- D. HIS 16-16 Decision

Prepared by Kimberli Fitzgerald, AICP, Historic Preservation Officer

G:\CD\PLANNING\HISTORIC\CASE APPLICATION Files - Processing Documents & Staff Reports\STAFF Reports-HLC\2016\HIS16-33 1313 Mill Street SE.docx



HEARING NOTICE

Attachment A

LAND USE REQUEST AFFECTING THIS AREA

Audiencia Pública

Si necesita ayuda para comprender esta informacion, por favor llame 503-588-6173

CASE NUMBER:

Historic Design Review Case No.HIS16-33

AMANDA APPLICATION NO:

16-118830-DR

HEARING INFORMATION:

Historic Landmarks Commission, Thursday, November 17, 2016, 5:30 P.M., Council Chambers, Room 240, Civic Center

PROPERTY LOCATION:

1313 Mill Street SE, Salem, OR 97301

OWNER(S):

Mission Mill Museum Association

APPLICANT / AGENT(S):

Natalie Erlund for FDH Velocitel for AT & T

DESCRIPTION OF

REQUEST:

Major historic design review of a proposal to modify the existing wireless transmission facility by adding three radio heads behind existing antennas on an existing water tank (1925) and adding three radio heads to ground shelter within the Willamette Heritage Center/ Thomas Kay Historic Park, individually listed on the National Register of Historic Places, on property zoned CR (Retail Commercial), and located at 1313 Mill Street SE, 97301; Marion County Assessor Map and Tax Lot number:

073W26BC04100.

CRITERIA TO BE CONSIDERED:

MAJOR HISTORIC DESIGN REVIEW

General Guidelines for Historic Contributing Resources

Pursuant to SRC 230.065, an application for a Major Historic Design Review proposing changes to a contributing building or structure may be approved if the proposal conforms to the following guidelines:

- (a) Except as otherwise provided in this Chapter, the property shall be used for its historic purpose, or for a similar purpose that will not alter street access, landscape design, entrance(s), height, footprint, fenestration, or massing.
- (b) Historic materials, finishes and distinctive features shall, when possible, be preserved and repaired according to historic preservation methods, rather than restored.
- (c) Distinctive stylistic features or examples of skilled craftsmanship significance shall be treated with sensitivity.
- (d) Historic features shall be restored or reconstructed only when supported by physical or photographic evidence.
- (e) Changes that have taken place to a historic resource over the course of time are evidence of the history and development of a historic resource and its environment. and should be recognized and respected. These changes may have acquired significance in their own right, and this significance should be recognized and respected.
- (f) Additions and alterations to a historic resource shall be designed and constructed to minimize changes to the historic resource.
- (g) Additions and alterations shall be constructed with the least possible loss of historic materials and so that significant features are not obscured, damaged, or destroyed.
- (h) Structural deficiencies in a historic resource shall be corrected without visually changing the composition, design, texture or other visual qualities.
- (i) Excavation or re-grading shall not be allowed adjacent to or within the site of a historic resource which could cause the foundation to settle, shift, or fail, or have a similar effect on adjacent historic resources.

HOW TO PROVIDE TESTIMONY:

Any person wishing to speak either for or against the proposed request may do so in person or by representative at the Public Hearing. Written comments may also be submitted at the Public Hearing. Include case number with the written comments. Prior to the Public Hearing, written comments may be filed with the Salem Planning Division, Community Development Department, 555 Liberty Street SE, Room 305, Salem, Oregon 97301. Only those participating at the hearing, in person or by submission of written testimony, have the right to appeal the decision.

HEARING PROCEDURE:

The hearing will be conducted with the staff presentation first, followed by the applicant's case, neighborhood organization comments, testimony of persons in favor or opposition, and rebuttal by the applicant, if necessary. The applicant has the burden of proof to show that the approval criteria can be satisfied by the facts. Opponents may rebut the applicant's testimony by showing alternative facts or by showing that the evidence submitted does not satisfy the approval criteria. Any participant may request an opportunity to present additional evidence or testimony regarding the application. A ruling will then be made to either continue the Public Hearing to another date or leave the record open to receive additional written testimony.

Failure to raise an issue in person or by letter prior to the close of the Public Hearing with sufficient specificity to provide the opportunity to respond to the issue, precludes appeal to the Land Use Board of Appeals (LUBA) on this issue. A similar failure to raise constitutional issues relating to proposed conditions of approval precludes an action for damages in circuit court.

Following the close of the Public Hearing a decision will be issued and mailed to the applicant, property owner, affected neighborhood association, anyone who participated in the hearing, either in person or in writing, and anyone who requested to receive notice of the decision.

CASE MANAGER:

Kimberli Fitzgerald, Case Manager, City of Salem Planning Division, 555 Liberty Street SE, Room 305, Salem, Oregon 97301. Telephone: 503-540-2397; E-mail: kfitzgerald@cityofsalem.net.

NEIGHBORHOOD ORGANIZATION:

Southeast Salem Neighborhood Association (SESNA), Jeff Leach, Co-Land Use Chair; Phone: (503) 508-5499; Email: jeff503@fastmail.us; Darrin Brightman, Co-Land Use Chair; Phone: (503) 586-3964; Email: darrinsesna@gmail.com.

DOCUMENTATION AND STAFF REPORT:

Copies of the application, all documents and evidence submitted by the applicant are available for inspection at no cost at the Planning Division office, City Hall, 555 Liberty Street SE, Room 305, during regular business hours. Copies can be obtained at a reasonable cost. The Staff Report will be available seven (7) days prior to the hearing, and will thereafter be posted on the Community Development website:

www.cityofsalem.net/Departments/CommunityDevelopment/Planning/Historic/Pages/default/aspx

ACCESS:

The Americans with Disabilities Act (ADA) accommodations will be provided on request.

NOTICE MAILING DATE:

October 27, 2016

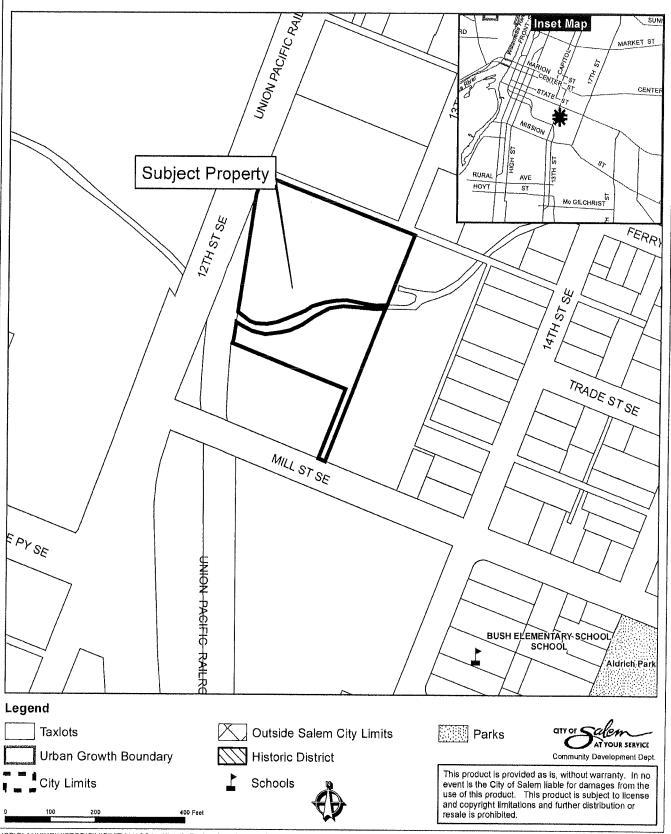
PLEASE PROMPTLY FORWARD A COPY OF THIS NOTICE TO ANY OTHER OWNER, TENANT OR LESSEE. For more information about Planning in Salem: http://www.cityofsalem.net/planning

@Salem Planning

\Allcity\amanda\AmandaForms\4430Type3-4HearingNotice.doc

It is the City of Salem's policy to assure that no person shall be discriminated against on the grounds of race, religion, color, sex, marital status, familial status, national origin, age, mental or physical disability, sexual orientation, gender identity and source of income, as provided by Salem Revised Code Chapter 97. The City of Salem also fully complies with Title VI of the Civil Rights Act of 1964, and related statutes and regulations, in all programs and activities. Disability-related modification or accommodation, including auxiliary aids or services, in order to participate in this meeting or event, are available upon request. Sign language and interpreters for languages other than English are also available upon request. To request such an accommodation or interpretation, contact the Community Development Department at 503-588-6173 at least three business days before this meeting or event. TTD/TTY telephone 503-588-6439 is also available 24/7

Vicinity Map 1313 Mill Street SE



EXCERPT FROM THE NATIONAL REGISTER NOMINATION DOCUMENTS Thomas Kay Woolen Mill

Thomas Kay Woolen Mill PRIMARY (Contributing)
1313 Mill Street SE; Assessor's Map 073W26BC04100;
Owner: Mission Mill Museum, Salem, OR 97301

Description: Located on the eastern edge of Willamette University campus, the Thomas Kay Woolen Mill property is livened by a water course and large oak trees. The façade of the mill is the focal point of a park-like corridor through the campus which is created by the mill stream. The major component of the property (the milliand its warehouse, dye house, picker house and other back buildings) is to be partially restored as a museum of wool technology by the non-profit Mission Mill Association. The Kay Mill was constructed in 1898 during the mining boom and after the destruction of the Company's mill at Waterloo made it necessary to combine all operations in the mill at Salem. The second period of alterations occurred in 1904 when fuel oil supplanted wood as an auxillary fuel for heating and dying, By 1915-28 looms were operating and the complex included the detached office and storage buildings, a 15,000 gallon Redwood water tank, the main mill building, a single story extension for dry finishing, a boiler room, picker house, carpenters and machine shop, housing for a turbine water wheel; dye house with drug and drying rooms, two wool warehouses an oil and bleach house and a shoddy and wood storage house. The third period of development came in 1925 when a new boller room and other additions were constructed.

Cultural Data: The Thomas Kay Woolen Mill Company was founded in 1889 by native-born Englishman Thomas Kay, Squire Farrar, and C.P. Bishop. The existing mill was the largest plant of its type in the state, and it was the longest-lived woolen manufactory ever established in Salem. Until its sale to the Mission Mill Museum Association in 1965, it had been under continuous ownership and management by the family-controlled Thomas Kay Woolen Mill Company.



4004 Kruse Way Place Suite 220 Lake Owego, OR 97035 NOV - 4 2016

COMMUNITY DEVELOPMEN

11/04/16

Historic Design Review Narrative

For a proposed modification to existing site: SA06 Mission Street

City of Salem Community Development Department 555 Liberty Street SE, Rm 305 Salem, Oregon 97301

Attn: Kimberli Fitzgerald, AICP

RE: AT&T Mobility Application for a modification to AT&T's existing site.

AT&T site number: SA06 Site name: Mission Street

Site address: 1313 Mill St SE, Salem, OR 97301

Current Use: Water Tower & Wireless Transmission site

Zone Classification: IC

AT&T Mobility is in the process of a system wide upgrade of its facilities to support and improve its LTE platform. LTE will increase the speed and volume of data that can be transmitted and received over wireless devices. LTE is often referred to as 4G technology and is usually developed and installed in steps called 2C, 3C, 4C etc. This particular project is the upgrade for 4C and 5C.

AT&T Mobility is requesting Historic review and consideration for a modification to its existing site, previously entitled under HIS 16-16. I have included the following list of documentation:

- Historic Review Process Application Form
- Historic Alteration Review Commercial Resource Worksheet
- Velocitel Check # 3662 for \$589.00, for a Historic Design review for the proposed Modification.
- This Narrative as required.
- Assessor's Map showing subject and surrounding property
- 11 x 17 Zoning Drawings
- Photo simulations
- Copy of the previously approved Decision (HIS 16-16) for reference
- Redacted copy of the Site Lease Agreement
- Specifications for equipment, both proposed and to be removed

4004 Kruse Way Place Suite 220 Lake Owego, OR 97035

ENGINEERING INNOVATION

Existing Project Description synopsis:

The existing water tank site has existing AT&T antennas and associated equipment attached to the water tank legs. AT&T has been at this location since 1997. The current configuration consists of (9) AT&T antennas, and (9) RRH's (remote radio heads).

Impact of this proposed modification:

New Cingular Wireless LLC dba AT&T Mobility is proposing to add (3) RRH's to the existing array; they will be installed behind existing antennas and so will be hidden from view. (2) existing equipment cabinets will be removed from the existing ground shelter, and (3) new RRH's are proposed to be mounted on the wall at the cabinets' location.

The total number of equipment proposed does not exceed the total number of equipment allowed on previous Historic Design Review decisions.

All new equipment will be painted to match existing.

No ground disturbance is proposed for this modification.

Detail of this proposed modification:

AT&T is proposing to remove the following from the existing installation:

• (2) equipment cabinets at ground shelter

AT&T will install the following at the existing installation:

- (1) AWS RRH per sector, (3) total, at water tank array
- (1) 850 RRH per sector, (3) total, at ground shelter

Result: Though some new equipment will be added, the visual impact will be minimal because equipment will be installed behind existing equipment. Furthermore, existing equipment (cabinets) will be removed. The area of the equipment being removed is more than the area of the equipment being added.

The following calculations show there is a net loss of equipment area:

Existing equipment to be removed (area in square inches):

(2) Cabinets@ 24x71 = 3,408.00

Total equipment area to be removed= 3,408.00

Proposed equipment (area in square inches):

(3) RRHs @ 18.9x11.5= 652.05 (3) RRHs @ 31.5x12= 1134.00 ENGINEERING INNOVATION

Total equipment area proposed = 1,786.05

Detail of this proposed modification:

The following sections address the review criteria relevant for this project:

(Responses are shown in italics)

230.065. General Guidelines for Historic Contributing Resources. In lieu of the standards for historic contributing buildings set forth in SRC 230.025 and SRC 230.040, an applicant may make a proposal for preservation, restoration, or rehabilitation activity, regardless of type of work, which shall conform to the following guidelines:

(a) Except as otherwise provided in this Chapter, the property shall be used for its historic purpose, or for a similar purpose that will not alter street access, landscape design, entrance(s), height, footprint, fenestration, or massing.

Though the original structure was not constructed for this use, this proposal will not alter the visual impact of the overall antenna installation as the proposed radio heads will be mounted behind the existing antennas.

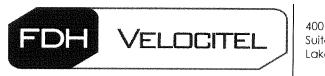
This proposal will not alter street access, landscape design, entrances, height, footprint, fenestration or massing. No employees or customers will visit or work at this site, other than for a short period during the installation of this proposed modification, and by technical staff on a monthly basis or during emergencies. This site is, and will remain, an "unstaffed" facility. Guideline 230.065 (a) has been met.

- (b) Historic materials, finishes and distinctive features shall, when possible, be preserved and repaired according to historic preservation methods, rather than restored.
- (c) Distinctive stylistic features or examples of skilled craftsmanship significance shall be treated with sensitivity.
- (d) Historic features shall be restored or reconstructed only when supported by physical or photographic evidence.

There is no proposal to remove, repair, reconstruct or disturb any historic materials, finishes, or distinctive feature, therefore Guidelines 230.065 (b) (c) (d) do not apply.

(e) Changes that have taken place to a historic resource over the course of time are evidence of the history and development of a historic resource and its environment, and should be recognized and respected. These changes may have acquired significance in their own right, and this significance should be recognized and respected.

The proposed modification will not adversely affect the surrounding historic property as AT&T has been in operation at this water tower location since 1997 and has become part of the environment in this part of Salem.



4004 Kruse Way Place Suite 220 Lake Owego, OR 97035

ENGINEERING INNOVATION

- (f) Additions and alterations to a historic resource shall be designed and constructed to minimize changes to the historic resource.
- **(g)** Additions and alterations shall be constructed with the least possible loss of historic materials and so that significant features are not obscured, damaged, or destroyed.

The proposed modification will minimize and provide the least visual impact to the historic structure and the surrounding area by maintaining the current overall visual impact while providing the necessary technical needs for today and into the future.

(h) Structural deficiencies in a historic resource shall be corrected without visually changing the composition, design, texture or other visual qualities.

There is no proposed correction of any structural deficiencies; therefore Guideline 230.065 (h) is not applicable for this application.

(i) Excavation or re-grading shall not be allowed adjacent to or within the site of a historic resource which could cause the foundation to settle, shift, or fail, or have a similar effect on adjacent historic resources. (Ord No. 34-10)

There is no proposed excavation or re-grading, therefore Guideline 230.065 (i) does not apply to this application.

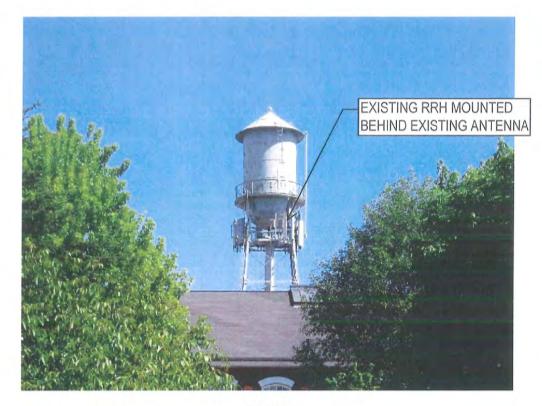
Natalie Erlund

PNW LTE Site Acquisition Specialist AT&T Turf Project

FDH Velocitel, Inc.
4004 Kruse Way Place, Suite 220
Lake Oswego, Oregon 97035
503-539-9247
natalie.erlund@FDHvelocitel.com
www.FDHvelocitel.net

Attachments:

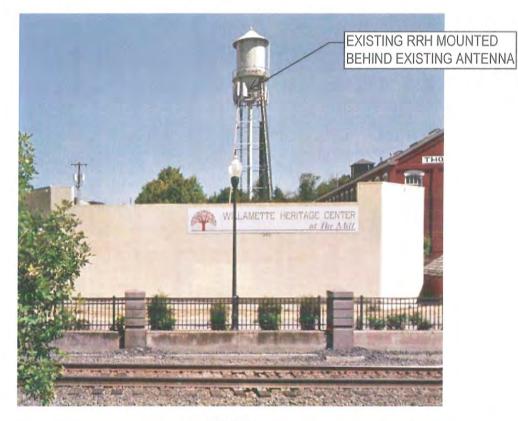
- Specifications for existing equipment to be removed
- Specifications for proposed equipment



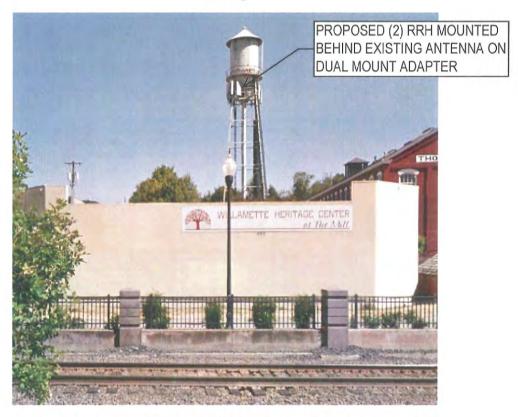
Existing



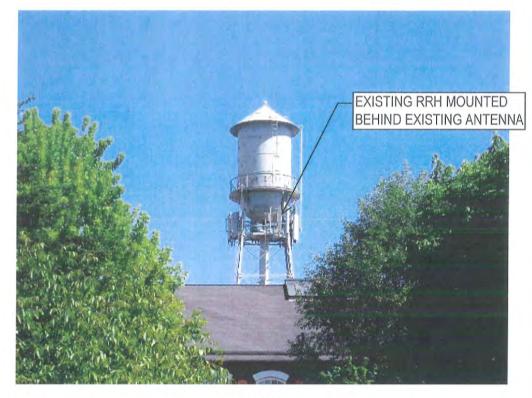
Proposed



Existing



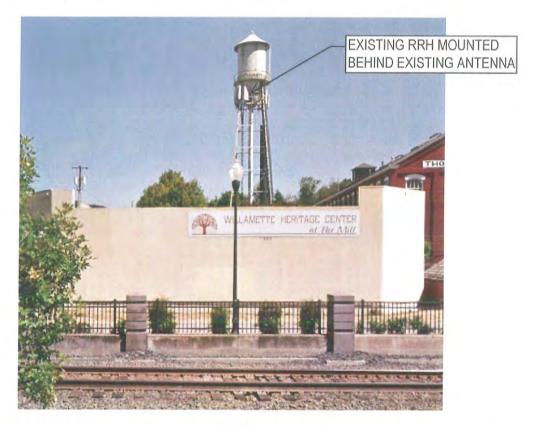
Proposed



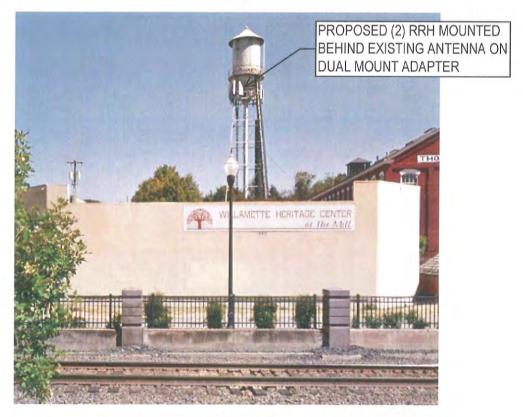
Existing



Proposed



Existing



Proposed

Mechanical Characteristics of Nokia UltraSite EDGE Base Station Indoor





1800 x 600 x 570 mm (H x W x D)

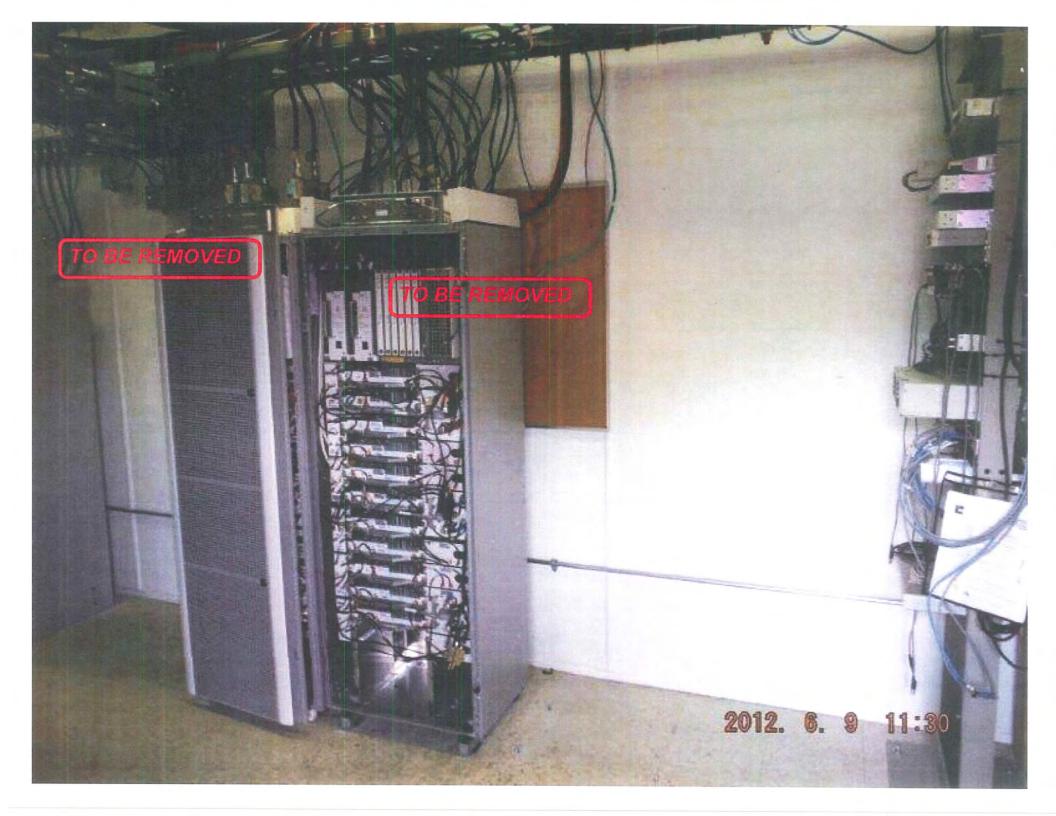
Identical footprint to IntraTalk BTS
 Additional 50 mm free space required behind cabinet

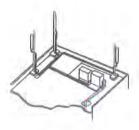
Weight

D	Max weight (12 TRX)	270
O	Heaviest single part kg (core mechanics)	58
D	Heaviest plug-in unit	18

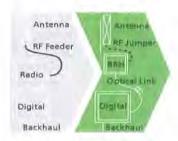
- Acoustic noise (max): 73 dB(A)
- Climatic conditions: -5°C ... +50 °C
- Ingress Protection Class:
- BTS core and cabinet door provides EMC shielding



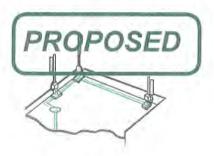




Macro



RRH for space-constrained cell sites



Distributed

TIMINUS

- RRH2x60-850 integrates two power amplifiers of 60W each at antenna connector
- RRH2x60-850 can operate WCDMA, LTE or a mix of WCDMA and LTE
- RRH2x60-850 offers the possibility to operate the two radio chains independently (two blocks of 20MHz WCDMA anywhere in the band)
- RRH2x60-850 is a very compact and lightweight product
- Advanced power management techniques are embedded to provide

power savings, such as PA bias control or second PA path switch-off

BENEFITS

- MIMO deployment and/or WCDMA and LTE simultaneous operation with only one single unit per sector
- possibility to operate the radio-chains independently (2x20MHz anywhere in the band) addresses nearly all operators' spectrum configurations which is especially useful in case of disaggregated spectrum or RAN sharing
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and noise-free solutions, with minimum impact on the neighborhood, which ease the deployment
- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-T

PECHFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD: 480x292.5x229.8mm (31.15l)
- Weight: 22.75kg (50lbs)

Electrical Data

- * Power Supply: -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference): 115W for @1x20W; 255W @2x60W

RF Characteristics

- Frequency band: 850 (3GPP band 5)
- Output power: 2x60W at antenna connectors
- Technologies supported: W-CDMA and

LTE

- Instantaneous bandwidth: 20MHz (MIMO) or 2x20MHz (non MIMO)
- · Rx diversity: 2-way uplink reception
- Typical sensitivity without Rx diversity (3GPP 25.104): -125.7 dBm for W-CDMA and -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisychaining and up to six RRH per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA: AISG 2.0 (RS485 connector and internal Bias-Tee)
- 6 external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- · Ingress Protection: IEC 60529 IP65
- Acoustic Noise: Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC: 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089
- Safety: IEC60950-1, EN 60825-1
- Regulatory: CE Mark European Directive: 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health: EN 50385

www.alcatel-fucent.com Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners. The information presented is subject to change without notice. Alcatel-Lucent assumes no responsibility for inaccuracies contained herein. Copyright 0 2013 Alcatel-Lucent. All rights reserved. M2013XXXXXXX (March)

ALCATEL-LUCENT RRH4X25-WCS

The Alcatel-Lucent RRH4x25-WCS is the new addition of Remote Radic Head to the extended product line of Alcatel-Lucent's distributed Base Station solution, aimed at facilitating the RF site acquisition and civil engineering.

Supporting 2Tx/4Tx MIMO and 4 ways Rx diversity, it allows North American operators to have a compact radio solution to deploy LTE in the new Wireless Communication Services band (WCS - 2.3 GHz, 3GPP band 30), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent RRH4x25-WCS product has four transmit RF paths, delivering either 4x25 or 2x50 W RF output power, and four receive RF paths. It supports 4Rx diversity and offers the possibility to select, just by Software, 2Tx or 4Tx MIMO configurations with an instantaneous bandwidth of either 5MHz or 10MHz.

The Alcatel-Lucent RRH4x25-WCS is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person because the Alcatel-Lucent RRH4x25-WCS is compact and weights less than 30 kg, eliminating the need for a crane to hoist the equipment to the rooftop.

Thanks to its small sizes and weight, the Alcatel-Lucent RRH4x25-WCS can be installed close to the antenna. Operators can therefore locate the Alcatel-Lucent RRH4x25-WCS where RF engineering is deemed ideal, minimizing trade-offs between available sites and RF optimum sites. The RF feeder and installation costs are reduced or even eliminated.

FRATURES

- Operating in 2.3 GHz band (WCS, 3GPP band 30)
- LTE 2Tx or 4Tx MIMO (switchable) and 4Rx Diversity
- Output power: Up to 2x50W or 4x25W
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BEHEFTTS

- · Compact to reduce additional footprint when adding LTE in WCS band
- MIMO scheme operation selection (2Tx or 4Tx) by Software only
- Improves Downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4RxDiv capability and best in class Rx sensitivity
- Easy installation, with a unit that can be carried and set up by one person
- Flexible mounting options: Pole/Wall/Floor



PROPOSED

TECHNICAL SPECIFICATIONS

	Features & performance
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	WCS band (3GPP band 30) DL: 2350 - 2360 MHz UL: 2305 - 2315 MHz
Instantaneous bandwidth - #carriers	10MHz - 1 LTE carrier (5 or 10MHz)
RF output power	2x50W or 4x25W (by SW)
Noise figure – RX Diversity scheme	2.5 dB typ. (<3 dB max) – 2 or 4 ways Rx diversity
Sizes (HxWxD) in mm (in.) Volume Weight in kg (lb) (w/a mounting HW)	800 x 305 x 220 (31.5" x 12" x 8.7") (with solar shield) 54 I 31.5 (70)
DC voltage range DC power consumption (@ -48V)	-40.5 to -57V at full performance, -38 to -57V at full performance (but power consumption) 500W typical @100% RF load in 2Tx operation, 550W typical in 4Tx operation
Environmental conditions Wind load (@150km/h or 93mph)	40°C (-40°F) /+55°C (+131°F) IP65 Frontal:<300N / Lateral :<200N
Antenna ports	2 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (@4.9 Gbps) SFP single mode dual fiber
AISG Interfaces	1 AISG2.0 output (RS485) Integrated Bias Tee on 2 duplexed RF ports
Misc. Interfaces	6 external alarms (2 connectors) – 2 Tx monitor ports - 1 DC block
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / UL 60950-1 / FCC Part 27

www.alcatel-lucent.com Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners. The information presented is subject to change without notice. Alcatel-Lucent assumes no responsibility for inaccuracies contained herein. Copyright © 2013 Alcatel-Lucent. All Rights Reserved. September, 2013





1313 MILL STREET SE SALEM, OR 97301

SA06 10127759

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE ATACT MOBILITY SERVICES IS STRICTLY PROHIBITED.





DRIVING DIRECTIONS

DRECTIONS FROM TUALATIN, OR: MERGE ONTO 1-5 S TOWARD SALEM. TAKE EXIT 256 FOR OR-213/MARKET ST, TOWARD LANCASTER MALL. TURN RIGHT ONTO MARKET STREET NE. TURN LEFT ONTO 17TH STREET NE. TURN RIGHT ONTO MILL STREET SE, DESTINATION WILL BE ON THE RIGHT. ARRIVE AT: 1313 MILL STREET SE, SALEM, OR 97301.

	731 1	ILO AVELOIO	OFF OF DRAWIN	100	
CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE	AT&T SIGN OFF	DATE	SIGNATURE
CONSTRUCTION MANAGER			COMPLIANCE		
LANDLORD'S REPRESENTATIVE			CONSTRUCTION MANAGER	1	
PROJECT MANAGER	-		DEPLOYMENT MANAGER		
SITE ACQUISITION		EQUIPMENT ENGINEER			
ZONING			INTERCONNECT		
SITE ACQUISITION MANAGER			OPERATIONS		
PERMITS			RF ENGINEER		
REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED		RF ENGINEER MANAGER			

APPLICANT: FOH VELOCITEL ON BEHALF OF AT&T MOBILITY CORP. MISSION & MILL MUSEUM 4004 KRUSE WAY PL., SUITE #220 LAKE OSWEGO, OR 97035 NATALIE ERLUND

PH: (503) 539-9247 PROJECT ENGINEER: FDH VELOCITEL INC. 4004 KRUSE WAY PL, SUITE #220 LAKE OSWEGO, OR 97035 PAUL TIBBOT, P.E. PH: (503) 636-2500

CODE INFORMATION:

ZONING CLASSIFICATION: IC - INDUSTRIAL COMMERCIAL BUILDING CODE: IBC 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
CONSTRUCTION TYPE: IIB
OCCUPANCY: U JURISDICTION: CITY OF SALEM

SITE LOCATION: (BASED ON NAD 83) TAX LOT #: 073W26BC04100 LATITUDE: 44'56'06.5" N LONGITUDE: 123'01'37.6" W TOP OF STRUCTURE AGL: 104'-0"+ BASE OF STRUCTURE AMSL: 174'± A.M.S.L.

PROJECT AREA: APPROXIMATE LEASE AREA: 1019 SQ. FT.

GENERAL INFORMATION:

PARKING REQUIREMENTS ARE UNCHANGED. TRAFFIC IS UNAFFECTED.

3. NO SIGNAGE IS PROPOSED.

TAKET MOBILITY PROPOSES THE FOLLOWING TO AN EXISTING UNSTAFFED RADIO TELECOMMUNICATIONS FACILITY CONSISTING OF AN ANTENNA ARRAY ON A 105'-0" SELF SUPPORT WATER TOWER TOWER AND AN EQUIPMENT SHELTER.

AT&T WILL REMOVE/REPLACE FROM TOWER: EXISTING GSM MANLINE COAX WILL BE DECOMISSIONED IN PLACE AND REPURPOSED FOR LITE 850 RRH SIGNAL TO EXISTING ANTENNA LOCATED ON SELF SUPPORT TOWER

AT&T WILL INSTALL ON TOWER:

(1) LTE AWS RRH PER SECTOR (3) TOTAL

(1) DOUBLE RRH MOUNT PER SECTOR (3) TOTAL

AT&T WILL INSTALL IN EXISTING EQUIPMENT SHELTER:

(1) LTE 850 RRH PER SECTOR (3) TOTAL

PROJECT INFORMATION

PROPERTY OWNER: C/O WILLAMETTE HERITAGE CENTER 1313 MILL ST SE #200 SALEM, OR 9730

CONSTRUCTION MANAGER: LAKE OSWEGO, OR 97035 JAY TELFORD

FDH VELOCITEL, INC. 4004 KRUSE WAY PL, SUITE #220 PH: (503) 349-2149

X T-1 TITLE SHEET SV-1 SURVEY X GN-1 GENERAL NOTES X A-1 OVERALL SITE PLAN X A-2 COMPOUND LAYOUT PLANS X A-3 EQUIPMENT LAYOUT PLANS X A-4 ELEVATIONS A-5 EQUIPMENT DETAILS A-6 EQUIPMENT DETAILS A-7 SITE DETAILS

DRAWING INDEX

DESCRIPTION

IN USE DWG.

A-8 GRADING & EROSION CONTROL PLAN A-9 GRADING & EROSION CONTROL DETAILS A-10 GENERATOR DETAILS A-11 PROPANE TANK DETAILS A-12 SIGNAGE DETAILS A-13 SIGNAGE DETAILS

X RF-1 ANTENNA CONFIGURATIONS
X RF-2 RF DETAILS
RF-3 RF DETAILS
X RF-4 RF NOTES X G-1 GROUNDING PLAN

X G-2 GROUNDING DETAILS G-3 GROUNDING DETAILS G-4 GROUNDING DETAILS E-1 UTILITY SITE PLAN

E-2 ELECTRICAL DETAILS E-3 ELECTRICAL DETAILS S-1 SHELTER FOUNDATION DETAILS

LEGAL DESCRIPTION



ATAT MOBILITY CORP 19801 SW 72ND AVE STE 200 TUALATIN, OR 97062



4004 KRUSE WAY PLACE BLDG. 4004, SUITE #220 LAKE OSWEGO, OR 97035 503-636-2500 (MAIN) 503-636-2501 (FAX)

SITE ID: SA06 MISSION STREET

> 1313 MILL STREET SE SALEM, OR 97301

PROJECT:

LTE 4C 5C ISSUED FOR: CONSTRUCTION

SUBMITTALS REV. DATE DESCRIPTION A 07/21/16 PRELIM 70 0 09/23/16 FINAL CD

FAE: 10127759 CHECKED BY: CURRENT ISSUE DATE: 09/23/16

STAMP:

SERIED PROFESSION Gand Do OREGON, March 9, 2010 TUL D. TIBEO

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRETARY BY NATURE. ANY USE OR INCLUSIVE OTHER THAN THAT WHICH RELATES TO AFAIT MOBILITY IS STRICTLY PROPHERED.

SHEET TITLE

TITLE SHEET

SHEET NUMBER REV.

GENERAL NOTES:

- VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS, NOTIFY AT&T AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- DESCRIBED IN THE DIVARIAGE TO BE USED FOR DIAGRAMMATIC PROCEDENCE.

 THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE CEREPAL CONTRACTION'S SOCIETY OF THE DIVARIAGE PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE CEREPAL CONTRACTOR'S SOCIETY OF THE DIVARIAGE PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE CEREPAL CONTRACTOR'S PROJECT WASHINGTON OF THE DIVARIAGE AND ANY REQUIRED. CONTRACTOR TO THE OTHER INSTALLATION WITH POWER CONTRACTOR IS TO COORDINATION SOLUTION(S). TO REPORT POWER INSTALLATION WITH POWER COORDINATION SOLUTION STREET. 2. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE,
- 3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE
- ATAIT, AND THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK, CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND DR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THI PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTEST OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WIGTING) ATAT, AND THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, O OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR
- THE CONTRACTOR SHALL SUPERMISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNOLES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO 2. ELEVATION OF SUBGRADE TO BE WITHIN .10 FOOT OF ELEVATIONS SHOWN ON MANUFACTURER'S APPLICANT'S SEPERATION OF SUBGRADE TO BE WITHIN .10 FOOT OF ELEVATIONS SHOWN ON PLAN MINUS DEPTH OF TOPSOL, FILL, AND MULCH.
- ALL WORK PERFORMED ON THE PROJECT AND MATERIAS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE COORSE REGULATIONS, AND DROMANCES, CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LIMIS, ORDINANCES, RULES, REGULATIONS, AND LOWELL PROFESS OF ANY PUBLIC AUTHORITY, MUNICIPAL, AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISOTIONAL COORS BERRING ON THE PERFORMANCE OF THE WORK.
- CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REMSIONS AND ADDRUGA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT
- THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE. ENSURE THAT EXCAVATION DOES NOT AFFECT ADJACENT
- SEAL ALL PENETRATIONS THROUGH FIRE—RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR
- 11. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A109C WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA BURING CONSTRUCTION.
- 12. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PANNIC, CURRING, ETC. DURING CONSTRUCTION, UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 13. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURNIG CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH-CONTRACTOR SHALL READING EQUIPMENT NOT SPECIFED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FIREE FROM PAINT SPOTS, USET, ON SAUDICES OF ANY MATURE.
- 14. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY TIEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PERFORM WORK DURING DWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
- THE CONTRACTOR SHALL PROVIDE ATAT. PROPER INSURANCE CERTIFICATES NAMING ATAT. AS ADDITIONAL INSURED, AND ATAT, PROOF OF LICENSE(S) AND
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL 4.
- 18. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS, NOTIFY ATAT AND CAUTIONI CALL BEFORE YOU DIES BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE: COMPLETE, CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CALL BIT TO CONTACT REGIONAL LITTLEY LOCATE SEPACE
- CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO ATAT. ALONG WITH REDLINED CONSTRUCTION SET.

GENERAL NOTES: (CONTINUED)

- 20, CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDILINING) THE APPROVED CONSTRUCTION SET, AND SUBMITTING THE REDLINED SET TO ATAZI. UPON COMPLETION.

- 23. ANY SUBSTITUTIONS OF MATERIAL'S AND/OR EQUIPMENT, MUST BE APPROVED BY
- WHERE ANCHORING TO A CONCRETE ROOF SLAB, CONTRACTOR SHALL CONFIRM (PRICIR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF POST TENSION TENDONS, CONTRACTOR SHALL
- 25. CONTRACTOR SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CARLE TRAY THE DOWNS, AND ALL OTHER DELEMA. THE DOWNS (WHERE APPLICABLE).
 PLASTIC ZIP THES SHALL NOT BE PERMITTED FOR USE ON ATA! PROJECTS.
 RECOMMENDED MANUFACTURES SHALL BE "PANOLIT CORP. METAL LOCKING THES
 MODEL NO. MLTIS-CP UNDER SERIES-304 (OR EQUAL). PANOLIT PRODUCT DISTRIBUTED BY TRIARC OF TACOMA, WA.
- MAINTAIN THE INTEGRITY OF THE BUILDING ENVELOP AND CONSTRUCT BARRIERS IN THE AREA OF WORK TO PREVENT DAMAGE FROM WEATHER AND CONSTRUCTION DUST AND DEBRIS.

- CLEAR AND GRUB SITE OF ALL VEGETATION, PAVING, GHAVEL BASE AND OTHER DEBRIS NOT TO REMAIN. SUBGRADES ARE TO BE SET PRIOR TO LANDSCAPE
- ALL AREAS SHALL BE ROUGH GRACED WITHIN FOOT OF ELEVATIONS INDICATED BEFORE PLANTING, ALL GRADES SHALL PRODUCE POSITIVE ORDINADE AWAY FROM 1. EQUIPMENT SLASS, BUILDINGS AND THROUGH ALL PLANTER AREAS TO AVOID LOW ENDRESS AND THROUGH ALL PLANTER AREAS TO AVOID LOW
- NEW CRADES SHALL BLEND NATURALLY INTO EXISTING GRADES.
- IN LANDSCAPE AREAS, FINISH GRADES ARE TO FOLLOW THE GRADES AND EDGE DETAILS INDICATED AND BE MOUNDED B INCHES IN THE CENTER OF THE BED ABOVE THE EDGE OF THE LANDSCAPE AREA.
- NOTIFY AT&T AND THE ARCHITECT IF MODIFICATIONS TO THE SHOWN GRADING SEEM NECESSARY AND OBTAIN APPROVAL PRIOR TO START OF WORK.
- FOOTHIGS SHALL BEAR ON FIRM, NATURAL, LINDISTURBED SOIL, OR ON ENBINERED FILL (COMPACTED TO 95%), ENSURE THAT EXCAVATIONS ARE FREE OF ORGANIC MATERIAL, DEBRIS, OR OTHER FOREIGN MATERIAL, NOTIFY ARCHITECT IF ANY UNUSUAL CONDITIONS ARE ENCOUNTERED.
- FILL AND SLAB BASE MATERIAL SHALL BE 3/4" MINUS CRUSHED ROCK PLACED IN 8" (MAXIMUM) LOOSE LIFTS AND COMPACTED TO 98% ASTM D1557 OR ASSHTO TI—180.
- SPECIAL INSPECTION SHALL BE PERFORMED AS REQUIRED BY THE 2014 OSSC SECTION 1705 BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE LOCAL JURISDICTION.

- CONTRACTOR SHALL PROVIDE REQUIRED SPECIAL INSPECTIONS PERFORMED BY AN INDEPENDENT INSPECTOR, APPROVED BY ATA! AND THE LOCAL JURISDICTION.
- THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL.

CONCRETE NOTES-

- 1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318.
- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 19 OF THE 2014 OSSC, CEMENT SHALL BE ASTM. C150, PORTLAND CEMENT TYPE II U.N.O.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.
- ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER SHALL BE AR-ENTRAINED WITH AN AIR-ENTRAINED KITH AND AIR STRAINED AND COLOR, COLORETE EXPOSED TO FREEZING AND THAINNG WHILE MOIST SHALL BE AR ENTRAINED IN ACCORDANCE WITH ACI 318, SECTION 4.4.1. WHILE MOIST 9.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT STUD OR THE STAND CONTROL OF SET AND TO SETH ACTS (INCLUDING SUPPLEMENT ST.), GRADE 60, \$\(\)_\text{FELSET} UNLESS NOTED OTHERWISE.

 81), GRADE 60, \$\(\)_\text{FELSET} UNLESS NOTED TIONS, ANY BARS SPECIFICALLY SO NOTED 10, \$\(\)_\text{ALL WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.

 81) OR THE REPORT OF STAND OF THE WELDES SHALL CONFORM TO 11, TOUGH UP ALL FIELD ORIGINA, WELDING AND CLIT SUBFACES WITH 2 COATS OF ASTILLATION, FOR THE PROPERTY REPORTS HOCKATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.

CONCRETE NOTES: (CONTINUED)

- REINFORCING STEEL, SMALL BE DETAILED (INCLUDING HOOKS AND BEIDGS) IN ADCORDANCE WITH ACT 315 AND 316. LAR ALL COMINIOUS BEDIFFORCED AT ALL SMALL SMALL
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185
- 8. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM ASTS.
- REINFORCING PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE CONSULTANT.
- 10. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS **FOLLOWS**

FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE

FORMED SURFACES EXPOSED(2 #5 BARS)

TO EARTH OR WEATHER (\$ \$5 BARS) SLABS AND WALLS (INTERIOR FACE) 14

- 11. BARS SHALL BE SUPPORTED ON CHARS OR DOBIE BRICKS.
- 12. ANCHOR BOLTS TO CONFORM TO ASTM A307.
- NON-SHRINK CROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRUCT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS, GROUT STRENGTH, SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).
- ALL EXPANSION ANCHORS TO BE HILTI BRAND, ADHESIVE ANCHORS REQUIRE TESTING TO CONFRM CAPACITY UNLESS WAVED BY ENGINEER AND LOCAL JURISDICTION.

STRUCTURAL STEEL NOTES:

ANCHOR BOLTS

- SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO ATA'T AND THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION.
- STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD STRUCTIONAL STEEL DESIGN, PARRICATION AND EXECTION (INCLUDING FIREID WILLIAMS, INFO STRENGTH FILED BODTIMS, DEPAISON BOUTS, AND THREADED EXPANSION ANCHORS) SMALL BE BASED ON THE ALS.C. "SPECIFICATION FOR THE OBSIGN, FARRICATION, AND RECEITION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EXPRING, SUPERMISON SHALL BE IN ACCORDANCE WITH 2014-OSSC CAMPETS 22, BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE CONSULTANT, THE CONSULTANT SHALL BE FURNISHED WITH A COPY OF ALL INSPECTION REPORTS AND TEST RESULTS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

THE OF MEMBER	
A. WIDE FLANGE SHAPES	ASTM A992, GRADE 50
A. SHAPES, PLATES, ANGLES, & ROOS	ASTM A36, Fy 36 KSI
B. SPECIAL SHAPES AND PLATES	ASTM A572, Fy 50 KSI
C. PIPE COLUMNS	ASTM A53, FV 35 KS1
D. STRUCTURAL TURING	ACTU ASON EL ASUCI

ASTM A307

- ASTM A325 TWIST-OFF HOT DIP GALVANIZE AFTER FABRICATION PER A123/A123M-00 ALL STEEL EXPOSED TO WEATHER AND WHERE NOTED.
- WELDING SHALL BE IN CONFORMANCE WITH ALS.C. AND AWS STANDARDS AND SHALL BE FERFORIED BY ASS/MIS DUT CERTIFIED WITHOUT MEDICAL PROPERTY OF A STATE DUT TO SETTING WITHOUT MEDICAL PROPERTY OF SHALL BE USED. WILLIAM OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGOEN LECTROOSE, WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING ETO XX LECTROOSE, WELDING OF GRADE 40 REINFORCING STEEL IS DECREOKED, WILLIAM STEEL IS SHALL BE PERFORMED IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF
- COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GASE SHOWN ON THE PLANS, PROVIDE MINIMALM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL COMPRISED STEEL STRUCTURAL SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL
- BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA) N/O SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED DTHERWISE
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- (UNLESS NOTED OTHERWISE). PREPARATION AND PAINTING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND IN ACCORDANCE WITH THE PAINT. MANUFACTURERS WRITTEN INSTRUCTIONS.

SAFETY PROCEDURES

FALL PROTECTION METHODS TO BE PEN FEDERAL, STATE, LOCAL, OSHA, AT&T AND OWNER REQUIREMENTS.

- VERIFICATION THAT THE EXISTING TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS,
- PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL NITHAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRUCTURED AT THE CENTERS SUITABLE TO THE MANUFACTURED'S. REQUIREMENTS.

MAX NAXIMUM

SYMBOLS: AND ASEREMATIONS A/C AIR CONDITIONING

AGL	ABOVE GROUND LEVEL		MECHANICAL
APTO	APPROXIMATELY	MTL	METAL
AWS	ADVANCED WRELESS SERVICE	MIR	MANUFACTURE
BBN	BATTERY BACKUP LINIT		MANAGER
BLDG	BUILDING	1,010	MINISTEN
BLK	PLOCIGNG		MECELIANEGUE
CLG	CELLING	NA.	NOT APPLICABLE
CLR	CLEAR		NOT IN CONTRACT
CONC	CONCRETE		NOT TO SCALE
	CONSTRUCTION		ON CENTER
CONT	CONTINUOUS		OUTSIDE DIAMETER
DBL	DOUBLE		PERSONAL COMMUNICATION
4	DIAMETER	100	SERVICE
DIAG	DIAGONAL	britt	POWER DISTRIBUTION LIMIT
DN	DOWN	PLYM	PLYWOOD
DET	DETAIL		PROJECT
DWC	DRAWNG		PROPERTY
EA	EACH		PRESSURE TREATED
DEV	ELEVATION		
	ELECTRICAL		REQUIRED
EO	FOUAL		RADIO FREQUENCY
EU	EQUIPMENT		ROOM
Ednis.	EQUIPMENT		ROUGH OPENING
EXT	EXTERIOR	REGI	
FIF	FIBER INTERFACE FRAME		SHEET
FIN	FINISH	SM	SHALAR
FLUOR		SPEC	SPECIFICATION
PLR	FLOOR		SOUNTE FOOT
FT	FDOT	\$\$	STAINLESS STEEL
GA	GAUGE		STEEL
DALY	GALVANIZED		STRUCTURAL
CC	GENERAL CONTRACTOR	STO	STUD
GRAD	GROUND		SUSPENDED
GSM	GLOBAL SYSTEM MOBILE	THRU	THROUGH
COP	CYPSUM BOARD	THAN	TOWER MOUNTED AMPLIFIER
HORZ.	HORIZONTAL	TNO	
MR	HOUR	TYP	TYPICAL
HT	HEIGHT	UMTS	UNIVERSAL MOBILE
ID	INSIDE DIAMETER		TELECOMMUNICATION SERVICE
BN .	INCH	VERT	VERTICAL
INFO	INFORMATION	W/	WITH
INSUE	WEULATION		WITHOUT
INT	INTERIOR		WRELESS COMMUNICATION
LBS	POUNDS		SERVICE

Octo--ra-m--F-F-

LEGEND

-- P--- P---

SUBJECT PARCEL SECTION LINES PROPERTY LINES RIGHT-OF-WAY LINES PROPOSED CONTOUR - MAJOR PROPOSED CONTOUR - MINOR EXISTING CONTOUR - MAJOR EXISTING CONTOUR - MINOR COAXIAL CABLE RUN FIBER OPTIC CABLE RUN ELECTRICAL CARLE BUILD TELECOM UNDER/OVER HEAD FENCE - SEDMENT FENCE - CHAINLINK, /W BARB



Know what's below. Call before you dig.

NOTE: STRUCTURAL DRAWINGS AND NOTES SHALL TAKE



ATOT MOBILITY CORP 19801 SW 72ND AVE STE 200 TUALATIN, OR 97062



4004 KRUSE WAY PLACE BLDG 4004 SUITE #220 LAKE OSWEGO, OR 97035 503-636-2500 (MAIN) 503-636-2501 (FAX)

SITE ID: SA06 MISSION STREET

> 1313 MILL STREET SE SALEM, OR 97301

LTE 4C 5C

	ED FOR:	nuario.	
1	CONSI	RUCTIO	N
	SUE	MITTALS	7
REV.	DATE	DESCRIPTION	T
Α.	67/21/16	PRELIA ZD	T
0	09/23/16	FINAL CO	1
			+
			1
			Ţ
			+
			+
			I
			L
EA	:	10127759	
DR	AWN EY:	ar	
OH	EDKED BY:	PE	
100	DONED BY:		-

09/23/16

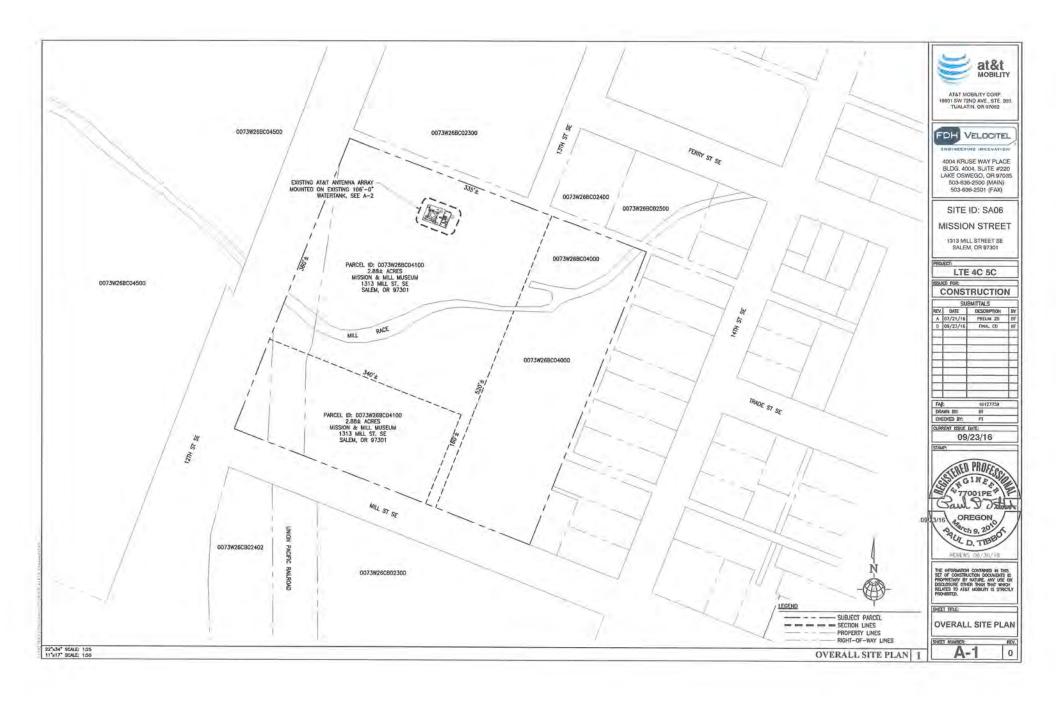


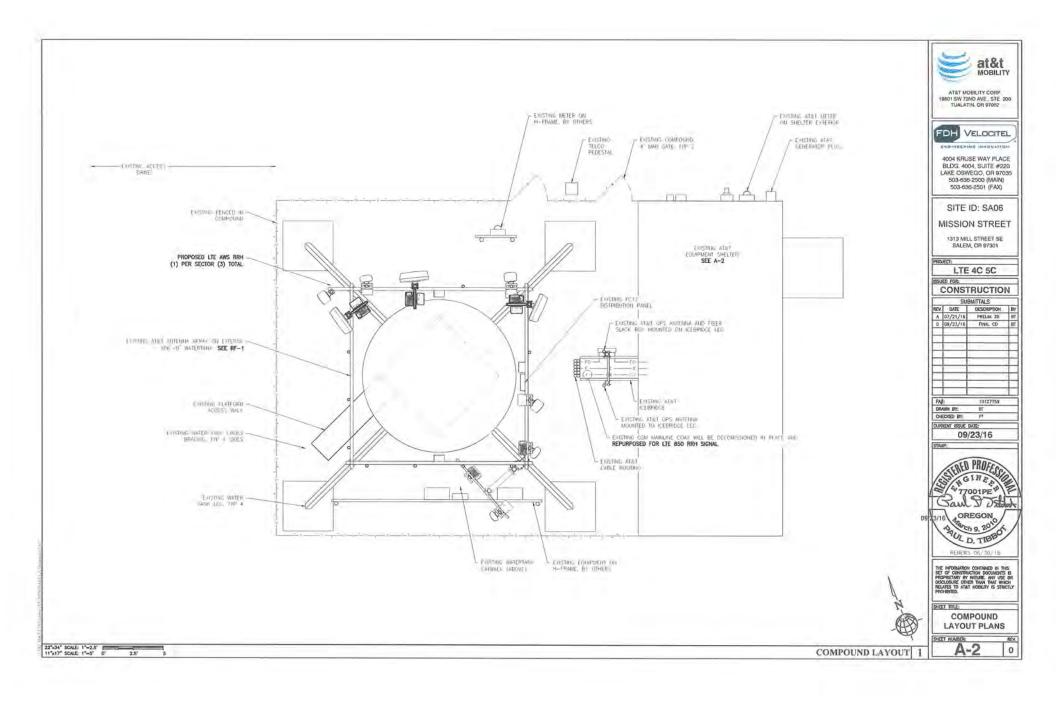
THE HIPDRIANTON CONTAINED BY THIS SET OF CONSTRUCTION DOCUMENTS I PROPRETARY BY HATHER MY USE ON DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATEST MOBILITY IS STRUCK!

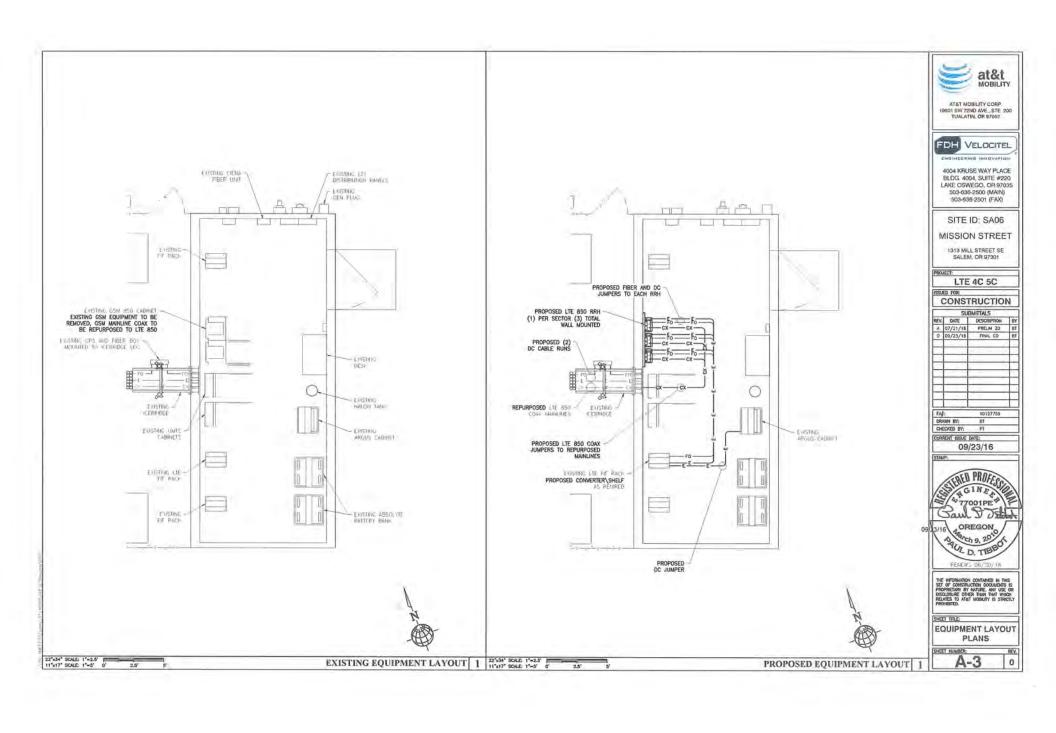
SHEET MILE:

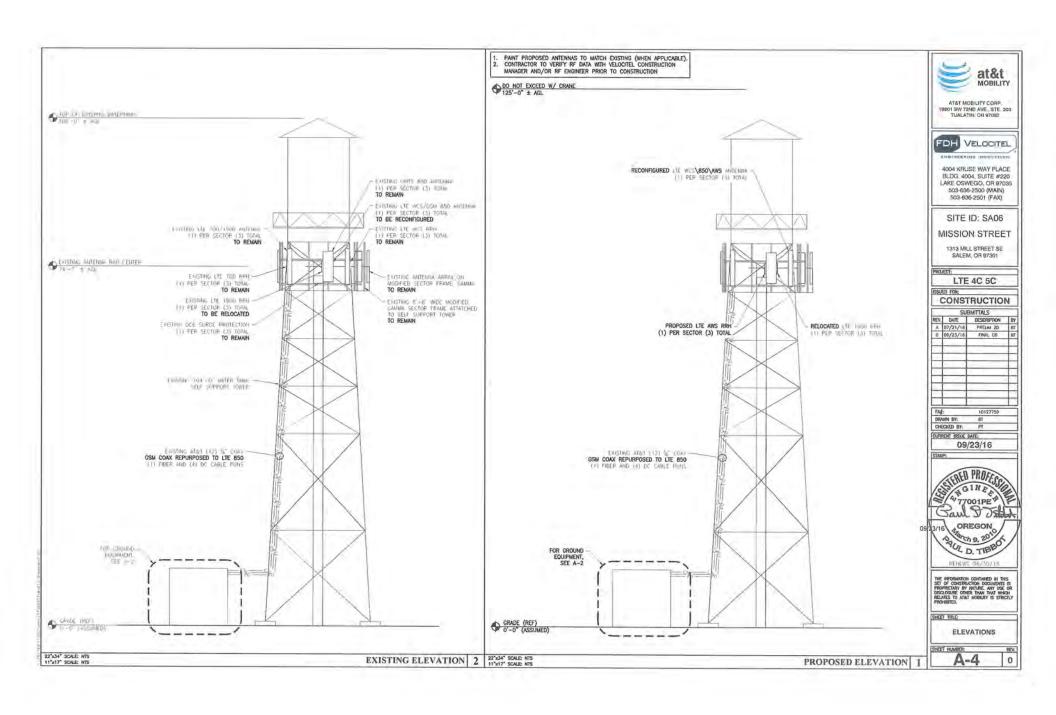
GENERAL NOTES

REV.









5A06 1	009407	75		SUPPLIED BY AT&T WIRELESS	, FROM RE CON	VFIG DATED:	06/28/16	BY:	Floyd Lucas					
SECTOR	POS	TECHNOLOGY	ANTENNA MAKE	ANTENNA MODEL	ANTENNA RAD CENTER (FEET AGL)	AZIMUTH (DEGREES)	TMA MODEL	QTY	DC SURGE AND DISTRIBUTION (QTY)	FEEDER TYPE (LTE)	FEEDER LENGTH (FT)	MECHANICA DOWNTILT (DEGREES)		
	1	LTE 700\1900	KMW	ET-X-UW-70-16-70-18-IR-AT-RA	74.5	15					-	-		2
A	2	UMTS 850	TenXc Wireless	BSA-M65-19R010-02_L	74.5	15			1 1		IRFO.	0		
	3								1					
	4	LTE WCS\850\AWS	KMW	EPBQ-652L8H8	74.5	15			(1) FC12 (1) FIBER (3) DC6 (PANEL) (4) DC			2		
В	1	UMTS 850	TenXc Wireless	BSA-M65-19R010-02_L	74.5	150						2		
	2					1				(1) FIBER				
B	3	LTE WCS\850\AWS	Andrew	EPBQ-652L8H8	74.5	135				THE PERSON NAMED IN PROPERTY OF STREET	7-50 2 2 2 2	100	0	
1 4	4	L'TE 700\1900		ET-X-UW-70-16-70-18-IR-AT-RA	74.5	150					300 m	2		
c	1	LTE 700\1900	KMW	ET-X-UW-70-16-70-18-IR-AT-RA	74.5	255				_	0			
	12										0			
-	3	UMTS 850	TenXc Wireless	BSA-M65-19R010-02_L	74.5	255								
	4	LTE WCS\850\AWS	KMW	EPBQ-652L8H8	74.5	255						0		

PAINT PROPOSED ANTENNAS TO MATCH EXISTING (WHEN APPLICABLE). CONTRACTOR TO VERIFY RF DATA WITH VELOCITEL CONSTRUCTION MANAGER AND/OR RF ENGINEER PRIOR TO CONSTRUCTION



AT&T MOBILITY CORP. 19881 SW 72ND AVE , STE 200 TUALATIN, OR 67062



4004 KRUSE WAY PLACE BLDG. 4004, SUITE #220 LAKE OSWEGO, OR 97035 503-636-2500 (MAIN) 503-636-2501 (FAX)

SITE ID: SA06 MISSION STREET

1313 MILL STREET SE SALEM, OR 97301

LTE 4C 5C ISSUED FOR:

CONSTRUCTION

	206	MILIALS	
REV,	DATE	DESCRIPTION	BY
. 4	07/21/16	PRELIM ZD	81
0	09/23/16	FINAL CD	81
-			+
	- 1		
			1
-		_	+
1			1

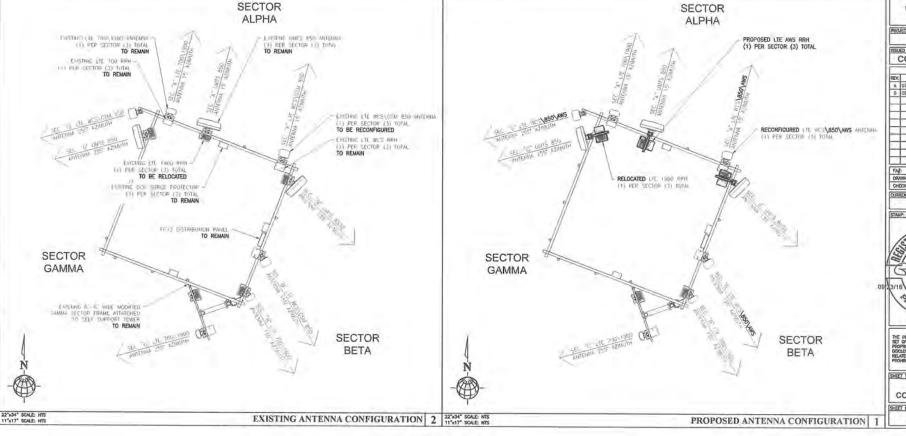
CHECKED BY: CURRENT ISSUE DATE:

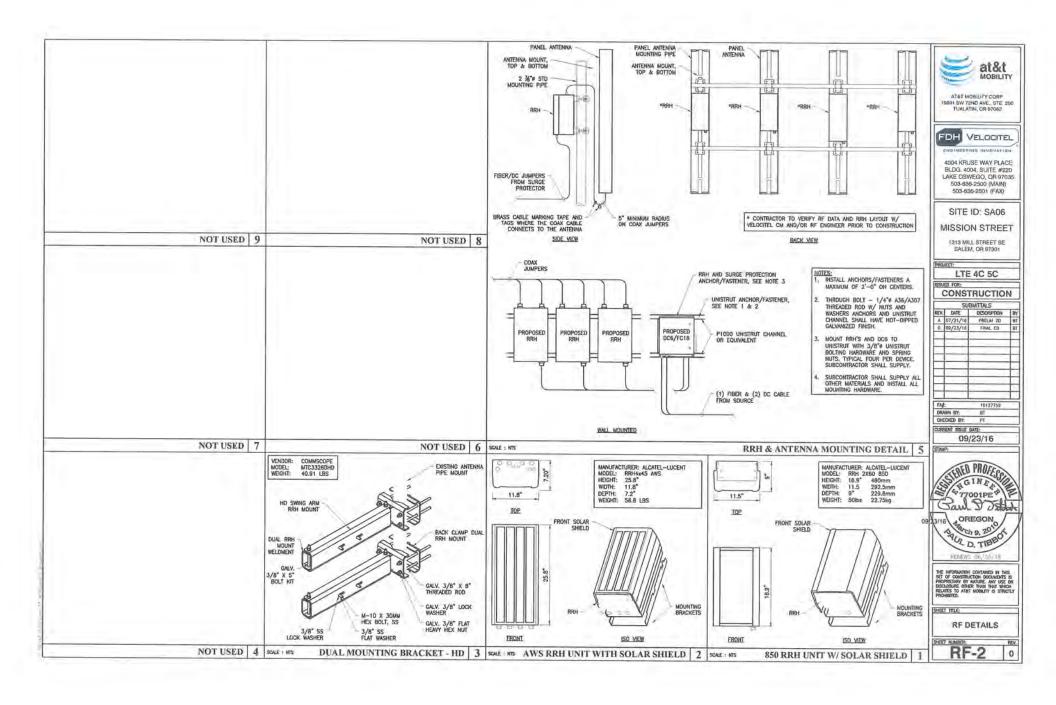
09/23/16

OREGON VUL D. TIBBO

ANTENNA CONFIGURATIONS

RF-





SWEEP TEST REQUIREMENTS:

ATAT MOBILITY PORTLAND, OR ANTENNA AND TRANSMISSION REQUIREMENTS

REQUIRED EQUIPMENT:

- WILTRON/ANRITSU SITE MASTER 5331A/B/C OR EQUIVALENT
- OPEN, SHORT, LOAD

 DIN FEMALE TO N TYPE MALE ADAPTER (LOW LOSS)
- DIN MALE TO N TYPE MALE ADAPTER (LOW LOSS)
- DIN FEMALE TO DIN FEMALE ADAPTER (LOW LOSS)
- PHASE STABLE CABLE
 TRUE-RMS MULTI-METER

FREQUENCIES TO BE USED:

- I. PCS FREQUENCY BAND 1850MH7-1990MH7

TRANSMISSION LINE AND ANTENNA SYSTEM TEST

- 1. INSERTION LOSS / CABLE LOSS
- ANTENNA/TRANSMISSION LINE DISTANCE TO FAULT (RL)
- ANTENNAS SYSTEM RETURN LOSS (4)
- ANTENNA SYSTEM WITH DUPLEXER/TMA/ANTENNA RETURN LOSS
- TRANSMISSION LINE CONTINUITY TEST

INSERTION LOSS

THIS TEST WILL MEASURE THE CABLE LOSS OF THE TRANSMISSION LINE AND JUMPERS BETWEEN THE CABINET AND ANTENNA.

TEST ERFOUENCIES: F1=1850 F2=1990

- ENTER THE FREQUENCIES TO BE USED IN F1 AND F2
- RE-CALIBRATE TEST EQUIPMENT
- CONNECT THE TWO JUMPERS GOING TO ANTENNA (BYPASS TMA) AND THE CARINET (BYPASS DUPLEXER) USING THE DIN (F) TO DIN (F) CONNECTORS CONNECT A SHORT AT THE END OF THE LAST JUMPER BEFORE THE ANTENNA, OF THE LINE LINGER TEST.
- 5. CONNECT TEST EQUIPMENT TO THE LAST TX JUMPER (YELLOW/RED) BEFORE THE
- CABINET, OF THE UNE UNDER TEST, PERFORM MEASUREMENT, THEN DUE STEP 10 THRU 12
- 7. DISCONNECT TX JUMPER, THEN CONNECT THE RX JUMPER (YELLOW/GREEN) TO DIN (F) ADAPTER
- THE CABINET, OF THE LINE UNDER TEST.

 PERFORM MEASUREMENT, THEN DUE STEP 10 THRU 13
- 10. ADD THE MAX PEAK TO MIN VALLEY THIS VALUE SHOULD NOT BE GREATER THAN
- 11. PEAK MAX (M1) + (M2)/2 = CABLE INSERTION LOSS
- 12. RECORD CALCULATED/MEASURED VALUE ON SEEP DATA SHEET, THEN SAVE SWEEP TO MEMORY LOCATION

 13. REPEAT STEPS 1 THRU 12 FOR THE REST OF THE TRANSMISSION

ANTENNA TRANSMISSION LINE DISTANCE TO FAULT (RL):

THIS TEST IS A PERFORMANCE VERIFICATION AND FAILURE ANALYSIS TOOL FOR ANTENNA, TRANSMISSION LINES AND CONNECTORS.

TEST FREQUENCIES: F1=1850 F2=1990

LINES

- ENTER THE FREQUENCIES TO BE USED IN F1 AND F2.
- RE-CALIBRATE TEST FOURMENT
- CONNECT THE TWO JUMPERS GOING TO ANTENNA (BYPASS TMA) AND THE
- CABINET (BYPASS DUPLEXER) USING THE DRI (F) TO DIN (F) CONNECTORS CONNECT THE ANTENNA TO THE LINE UNDER TEST COUNTRY TEST EQUIPMENT TO THE LINE UNDER TEST (SUMPER (VELLOW/RED) BEFORE THE
- CABINET OF THE UNE UNDER TEST PERFORM MEASUREMENT, THEN DO STEP 10 THRU 12
- 7. DISCONNECT TX JUMPER, THEN CONNECT THE RX JUMPER (YELLOW/GREEN) TO
- ON (7) ADAPTER

 B. CONNECT TEST EQUIPMENT TO THE LAST RX JUMPER YELLOW/GREEN BEFORE

 THE CABINET, OF THE LINE LUNDER TEST

 9. PERFORM MEXICIPEMENT, VERBY RESULTS WITH STEP 10 THRU 13

 10. VERBY EACH DIN CONNECTOR HAS A RL LESS THAN —320B, N TYPE —281DB

 11. VERBY THE REMINISHING LINE HAS A R. LESS THAN —450B

 12. VERBY THE REMINISHING LINE HAS A RH. LESS THAN —450B

 13. RECKEND PASS/FAIL ON SHEEP DATA SHEET, THEN SAME SEEP TO A MEMORY

- LOCATION 14. REPEAT STEPS 1 THRU 13 FOR THE REST OF THE ANTENNAS AND TRANSMISSION

ANTENNA SYSTEM RETURN LOSS:

THIS TEST MEASURES THE RL OF THE TRANSMISSION LINE TERMINATING INTO THE ANTENNA W/O TMA AND DUPLEXER.

- ENTER THE FREQUENCIES TO BE USED IN F1 AND F2
- RE-CALIBRATE FOUIPMENT
- CONNECT THE TWO JUMPERS GOING TO ANTENNA (BYPASS TMA) AND THE CABINET (BYPASS DUPLEXER) USING THE DIN (F) TO DIN (F) CONNECTORS CONNECT THE ANTENNA TO THE LINE UNDER TEST
- CONNECT TEST EQUIPMENT TO THE LAST TX JUMPER (YELLOW/RED) BEFORE THE
- CABINET, OF THE LINE UNDER TEST.
 PERFORM MEASUREMENT, VERIFY RESULTS WITH STEP 10 THRU 13
- DISCONNECT TX JUMPER, THEN CONNECT THE RX JUMPER (YELLOW/GREEN) TO DIN (F) ADAPTER
- CONNECT TEST EQUIPMENT TO THE LAST RY JUMPER (YELLOW/GREEN) BEFORE THE CABINET, OF THE LINE UNDER TEST
- PERFORM MEASUREMENT VERIFY RESULTS WITH STEP 10 THRU 13
- VERIFY ANTENNA SYSTEM USING 1 5/8" WAVE-GUIDE HAS A RL LESS THEN -1708, 200 FT, MAY.
- VERIFY ANTENNA SYSTEM USING 7/6" WAVE-QUIDE HAS A RL LESS THEN -160B, 200 FT. MAX.
- 12. FOR SYSTEMS ABOVE 200 FT. 1 5/8" RL -15,508, 7/8"RL -1408.

 13. RECORD TEST RESULTS ON SWEEP DATA SHEET, THEN SAVE SWEEP TO A
- MEMORY LOCATION.

 14. REPEAT STEPS 1 THRU 13 FOR THE REST OF THE ANTENNA SYSTEMS

ANTENNA SYSTEM WITH DUPLEXER AND TWA RETURN LOSS:

THIS TEST MEASURES THE RL OF THE COMPLETE ANTENNA NETWORK ON THE RX PATH. REVINDER THE TEST EQUIPMENT WILL TERMINATE INTO THE TMA ON THE RX PATH.

RA TEST FREQUENCIES: F1=1850 F2=1860

- ENTER THE FREQUENCIES TO BE USED IN F1 AND F2
 RE—CALIBRATE TEST EQUIPMENT
 REMOVE (IN (F) TO DIN (F) CONNECTORS FROM BOTH YOP AND BOTTOM
- JUMPERS CONNECT TOP JUMPERS TO THE AND CONNECT BOTTOM JUMPERS TO DUPLEXER
- CONNECT TEST EQUIPMENT TO THE LAST TX JUMPER (YELLOW/RED)
- PERFORM MEASUREMENT
- VERIFY ANTENNA SYSTEM USING 1-%" WAVE-GUIDE HAS A RL LESS THAN -16.5dB, 200 FT, MAX
- VERIFY ANTENNA SYSTEM USING 36" WAVE-GUIDE HAS A RL LESS THAN -15.5dB.
- FOR ANTENNA NETWORK ABOVE 200 FT. 1% RL-14dB ½ RL-13.5dB RECORD TEST RESULTS ON SWEEP DATA SHEET, THEN SAVE SWEEP TO A MEMORY LOCATION
- 11. REPEAT STEPS 1 THRU 10 FOR THE REST OF THE ANTENNA NETWORKS

ANTENNA SYSTEM WITH DUPLEXER AND TMA RETURN LOSS:

THIS TEST MEASURES THE RL OF THE COMPLETE ANTENNA NETWORK ON THE RX PATH. REMINDER THE TEST EQUIPMENT WILL TERMINATE INTO THE TMA ON THE RX PATH.

RX TEST FREQUENCIES: F1=1930 F2=1940

- ENTER THE FREQUENCIES TO BE USED IN F1 AND F2 RE-CALIBRATE TEST EQUIPMENT
- REMOVE DIN (F) TO DIN (F) CONNECTORS FROM BOTH TOP AND BOTTOM JUMPERS,
 CONNECT TOP JUMPERS TO THA AND CONNECT BOTTOM JUMPERS TO DUPLEXER
- CONNECT TEST EQUIPMENT TO THE LAST TX JUMPER (YELLOW/RED)
- PERFORM MEASUREMENT
- VERIFY ANTENNA SYSTEM USING 1-56" WAVE-GUIDE HAS A RL LESS THAN -15.5dB, 200 FT. MAX
- VERIFY ANTENNA SYSTEM USING 76" WAVE-GUIDE HAS A RL LESS THAN -14.54B,
- 9. FOR ANTENNA NETWORK ABOVE 200 FT. 1% RL-1408 % RL-12.5dB 10. RECORD TEST RESULTS ON SWEEP DATA SHEET, THEN SAVE SWEEP TO MEMORY LOCATION

 11. REPEAT STEPS 1 THRU 10 FOR THE REST OF THE ANTENNA NETWORKS.

TRANSMISSION LINE CONTINUITY TEST:

THIS TEST WILL VERIFY THE CONTINUITY OF THE RX PATH BETWEEN THE BTS AND THE

- CONNECT A SHORT AT THE END OF THE LAST JUMPER BEFORE THE TWA OF THE LINE UNDER TEST CONNECT MULTIMETER TO THE LAST JUMPER BEFORE THE BTS RX 1
- (YELLOW/GREEN) PLACE THE BLACK LEAD ON THE OUTER PART OF THE CONNECT AND THE RED LEAD ON THE CENTER PIN OF THE CONNECTORS YERFY THE METER READS A SHORT
- REMOVE SHORT AND VERIEV METER READS OPEN
- RECORD PASS/FAIL ON SWEEP TEST DATA SHEET RECONNECT JUMPERS TO THE TMA AND BTS REPEAT STEPS 1 THRU 6 FOR THE REMAINING RECEIVE PATHS

CABLE MARKING TAGS

TECHNOLOGY

TO PROVIDE ADDITIONAL IDENTIFICATION EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL TAG MADE OF STANLESS STEEL OR BRASS AND STANFED AS SHOWN. THE ID MANIONG LOCATIONS SHOULD BE AS PER "CABLE MARGING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE.

FORMAT A IS TO BE USED WHEN THERE IS ONLY ONE TECHNOLOGY BEING CARRIED ON A CABLE. FORMAT B IS USED WHEN TWO

TECHNOLOGIES HAVE BEEN DUPLEXED ONTO ONE CABLE AND WILL BE RROKEN OUT THROUGH A DIPLEXOR AT THE TOP OF THE TOWER, FORMAT C IS USED WHEN TWO TECHNOLOGIES HAVE BEEN QUADRAPLEXED ONTO ONE CABLE FOR ANTENNA PORT SHARING AT THE TOP OF THE TOWER.

THE FIRST NUMBER DESIGNATES THE ANTENNA POSITION, THE SECOND CHARACTER DESIGNATES THE PORT ON THE ANTENNA, THE THIRD CHARACTER DESIGNATES THE TECHNOLOGY TYPE, AND THE LAST NUMBER DESIGNATES THE FREQUENCY DAND OF THE

SECTOR RETA

RF CABLE B2 THROUGH B6

AS REO'D

SECTOR ORIENTATION/AZIMUTH WILL VARY FROM

REGION TO REGION AND IS SITE SPECIFIC.
REFER TO RE REPORT FOR SITE TO DETERMINE
THE SECTOR ORIENTATION.

CABLE MARKING LOCATIONS

X ~ ALL RF CABLE SHALL BE MARKED AS PER CABLE MARKING LOCATIONS TABLE.

IN ADDITION TO THE IMPLEMENTATION OF BRASS TAGS, CONTRACTORS SHALL USE DNE BAND OF COLOR TYPE PER CASILE SECTION DESIGNATION LABBLING.

THE SECTOR DESIGNATIONS SHALL BE MARKED AS DESCRIBED ON THE CURRENT RE DATA SHEET (RFDS) AT TIME OF INSTALLATION. RF DATA SHEET IS TO REMAIN POSTED AT EVERY SITE.

ENTRY BOOTS TO SEAL COAX WITHIN 6" CONDUITS SHALL BE:

SEE COAX CONDUIT EXIT SEAL DETAIL (WHEN APPLICABLE)

CONTRACTOR SHALL USE THE ABOVE PRODUCTS OR APPROVED EQUAL

ROXTEC H SEAL H3-150 / 3X (28-54) / 20

LOCATIONS

END OF THE MAIN COAX RUN WHERE THE CONNIAL CABLE AND JUMPER TO THE ANTENNA ARE CONNECTED

CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER

(AS APPLICABLE).

END OF JUMPER AT BTS CABINET

SECTOR CAMMA

REO'D

RF CABLE C2 THROUGH C6 AS

THE FOLLOWING ARE 3 DIFFERENT FORMATS TO BE USED FOR THE

DIAGRAM OF BRASS TAG FORMATS

NO. TAG

2.

CABLE COLOR MARKING

SECTOR A: SECTOR B: SECTOR C:

COAN BOOT SPECIFICATION

THE COLORS SHALL BE AS FOLLOWS:





SECTOR MIPH

RF CABLE AZ THROUGH AS AS

REQ'D



FORMAT A FORMAT B

FORMAT C

4004 KRUSE WAY PLACE BLDG. 4004, SUITE #220 LAKE OSWEGO, OR 97095 503-636-2500 (MAIN) 503-636-2501 (FAX)

ATAT MOBILITY CORE

19801 SW 72ND AVE STE 200

TUALATIN, OR 97082

FDH VELOCITEL

at&t

MOBILITY

SITE ID: SA06 MISSION STREET

1313 MILL STREET SE SALEM, OR 97301

PROJECT

LTE 4C 5C ESSUED FOR: CONSTRUCTION

	SUE	BMITTALS			
REV.	DATE	DESCRIPTION	T		
۸.	07/21/16	PRELIM ZD	1		
0	08/23/16	FINAL CD	1		
			İ		
-	-		+		
			Ţ		
		_	t		
			Ŧ		
FAB: 10127759					
DRU	WN BY:	BT			
CH	COED BY:	PT			

09/23/16 STAMP



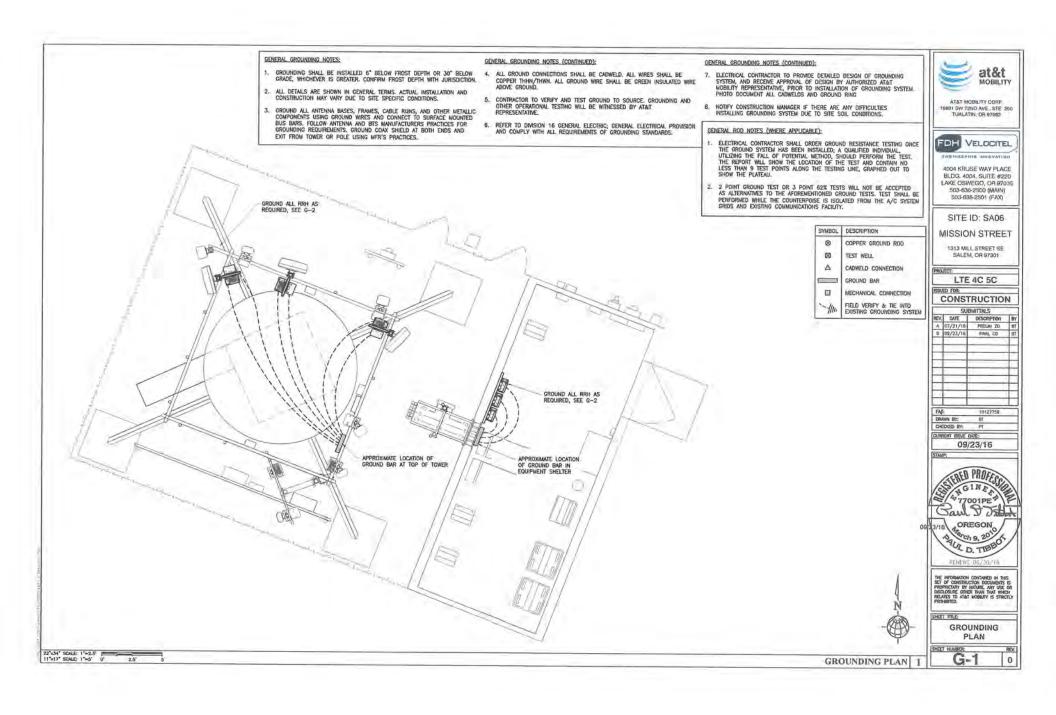
THE OPPORTATION CONTAINED IN THIS TEST OF CONSTRUCTION DOCUMENTS IS PREPRETARY BY INTUINE ANY USE OF DISCLOSURE OTHER THAN THAT WHICH HELATES TO ATAIT MOBILITY IS STROTE.)

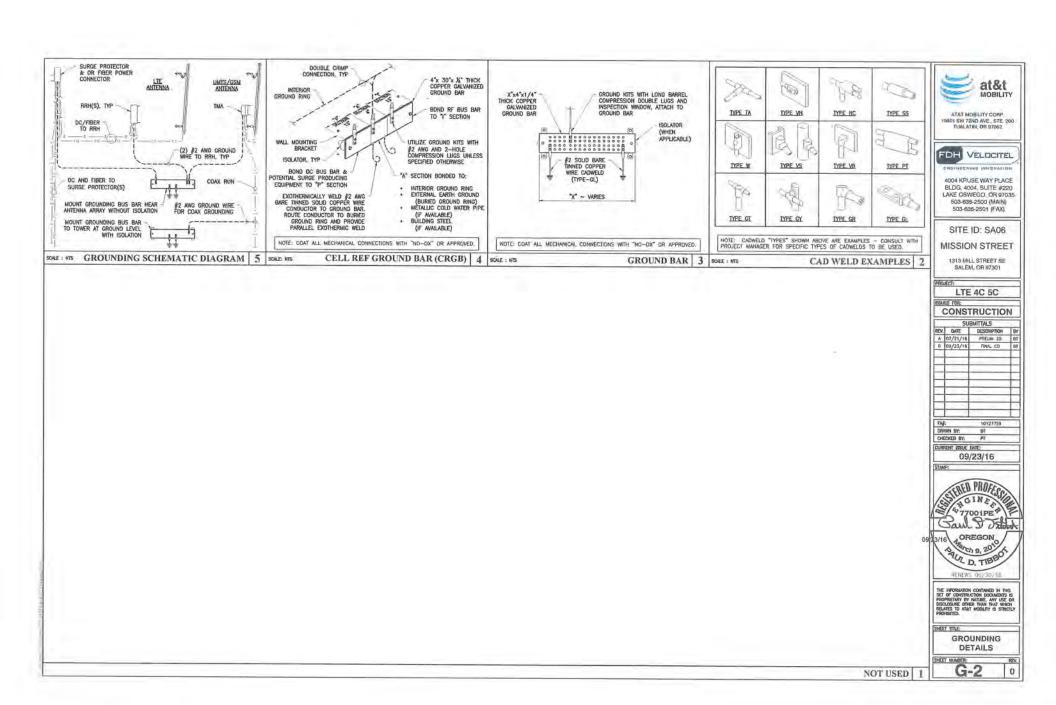
SHEET TITLE

RF NOTES

SHEET HUNSES 0

CURRENT ISSUE DATE





Si necesita ayuda para comprender esta informacion, por favor llame 503-588-6173

DECISION OF THE HISTORIC LANDMARKS COMMISSION

MAJOR HISTORIC DESIGN REVIEW CASE NO. HIS16-16

APPLICATION NO.: 16-111056-DR

NOTICE OF DECISION DATE: JULY 22, 2016

REQUEST: Major historic design review of a proposal to modify an existing wireless communication facility, removing 6 antennae and replacing 6 wireless antennae and associated equipment with 6 antennae and associated equipment on an existing water tank (1925) within the Willamette Heritage Center/ Thomas Kay Historic Park, individually listed on the National Register of Historic Places, on property zoned CR (Retail Commercial), and located at 1313 Mill Street SE, 97301; Marion County Assessor Map and Tax Lot number: 073W26BC04100.

APPLICANT: Natalie Erlund, FDH Velocitel for AT & T

LOCATION: 1313 Mill St SE

CRITERIA: Salem Revised Code Chapter 230.065

DECISION: The Historic Landmarks Commission **GRANTED** Major Historic Design

Review Case No. HIS16-16 subject to the following condition of approval:

Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennae and associated equipment shall not exceed the total number and cumulative size of the dishes, antennae and associated equipment currently approved for installation.

Andrew Hendrie, Chair, Historic Landmarks Commission

This Decision becomes effective on <u>August 9, 2016.</u> No work associated with this Decision shall start prior to this date unless expressly authorized by a separate permit, land use decision, or provision of the Salem Revised Code (SRC).

Application Deemed Complete: June 28, 2016
Public Hearing Date: July 21, 2016

Notice of Decision Mailing Date: July 22, 2016
Decision Effective Date: August 9, 2016
State Mandate Date: October 26, 2016

The rights granted by this decision must be exercised by <u>August 8, 2018</u>, or this approval shall be null and void. A copy of the decision is attached.

HIS16-16 July 22, 2016 Page 2

<u>Case Manager</u>: Kimberli Fitzgerald, AICP, Historic Preservation Officer <u>kfitzgerald@cityofsalem.net</u>, 503.540.2397

This decision is final unless written appeal from an aggrieved party is filed with the City of Salem Planning Division, Room 305, 555 Liberty Street SE, Salem OR 97301, no later than 5:00 p.m., August 8, 2016.

Any person who presented evidence or testimony at the hearing may appeal the decision. The notice of appeal must contain the information required by SRC 300.1020 and must state where the decision failed to conform to the provisions of the applicable code section, SRC Chapter 230. The appeal must be filed in duplicate with the City of Salem Planning Division. The appeal fee must be paid at the time of filing. If the appeal is untimely and/or lacks the proper fee, the appeal will be rejected. The Hearings Officer will review the appeal at a public hearing. After the hearing, the Hearings Officer may amend, rescind, or affirm the action, or refer the matter to staff for additional information.

The complete case file, including findings, conclusions and conditions of approval, if any, is available for review at the Planning Division office, Room 305, City Hall, 555 Liberty Street SE, during regular business hours.

http://www.cityofsalem.net/planning

\\allcity\amanda\amandatestforms\4431Type2-3NoticeOfDecision.doc

Si necesita ayuda para comprender esta informacion, por favor llame 503-588-6173

DECISION OF THE SALEM HISTORIC LANDMARKS COMMISSION

CASE NO. Historic Review Case No. HIS16-16 / AMANDA No. 16-111056-DR

FINDINGS: Based upon the application materials, the facts and findings in the Staff Report dated July 21, 2016 incorporated herein by reference, and testimony provided at the Public Hearing of July 21, 2016, the Historic Landmarks Commission (HLC) finds that the applicant adequately demonstrated that their proposal complies with the applicable provisions of the Salem Revised Code (SRC) 230.065 as follows:

Criteria: 230.065. General Guidelines for Historic Contributing Resources.

FINDINGS

(a) Except as otherwise provided in this Chapter, the property shall be used for its historic purpose, or for a similar purpose that will not alter street access, landscape design, entrance(s), height, footprint, fenestration, or massing.

Finding: The HLC finds that while it is clear that the water tower was not constructed for this use, the impact of the removal of six antennas and replacement of the six antennas will improve the overall visual integrity of the water tower. By locating the proposed replacement antennas below the tower and placing them flush along the catwalk, adjacent to the legs painted to match, the proposed replacement antennas do not significantly alter the appearance of the water tower. The removal of all six Cricket antennas from the tank area, restores the visual integrity of this portion of the resource. The HLC find that this use is compatible and that 230.065(a) has been met for this proposal.

(b) Historic materials, finishes and distinctive features shall, when possible, be preserved and repaired according to historic preservation methods, rather than restored.

Finding: The HLC finds that there are no historic materials or features proposed for removal, reconstruction, or repair and that Guideline 230.065 (b) is not applicable to the evaluation of this proposal.

(c) Distinctive stylistic features or examples of skilled craftsmanship significance shall be treated with sensitivity.

Finding: The HLC finds that there are no distinctive stylistic features proposed for removal, reconstruction, or repair and Guideline 230.065 (c) does not apply to the evaluation of this proposal.

(d) Historic features shall be restored or reconstructed only when supported by physical or photographic evidence.

Finding: The HLC finds that there are no historic materials or features proposed for removal,

reconstruction, or repair and that Guideline 230.065 (d) is not applicable to the evaluation of this proposal.

(e) Changes that have taken place to a historic resource over the course of time are evidence of the history and development of a historic resource and its environment, and should be recognized and respected. These changes may have acquired significance in their own right, and this significance should be recognized and respected.

Finding: HLC finds that while the existing water tower is not the original tower, it was constructed in 1925, within the period of significance for the Thomas Kay Woolen Mill, and that the water tower is evidence of the history and development of the Thomas Kay Woolen Mill. The HLC further finds that the applicant will be decreasing the total number of antennas on the tower, and that the replacement antennas will be located below the main tower adjacent to the legs, minimizing the visual impact to the tower and the adjacent Mill building and surrounding site thereby meeting Guideline 230.065(e).

(f) Additions and alterations to a historic resource shall be designed and constructed to minimize changes to the historic resource.

Finding: The HLC finds that the antennas proposed for installation on the water tower will not have a significant adverse visual impact to the resource. The proposed location of the antennas minimizes the visual impact on the resource; therefore, the HLC finds that 230.065(f) has been met.

(g) Additions and alterations shall be constructed with the least possible loss of historic materials and so that significant features are not obscured, damaged, or destroyed.

Finding: The HLC finds that the water tank currently has eighteen antennas. Should the current proposal be approved by the HLC, the water tower would have a total of twelve antennas meeting the applicable condition of approval adopted under HIS13-16. While the current proposal does not exceed a total of twelve antennas, the HLC has made it clear that their intent is to limit the cumulative adverse impact of too much wireless equipment attached to this historic resource which would obscure the significant features of this resource. Therefore, in order to limit the cumulative adverse effect and for this proposal to better meet SRC 230.065(g), the HLC adopts the following CONDITION of APPROVAL:

- Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennas and associated equipment shall not exceed the total number and cumulative size of the dishes, antennas and associated equipment currently approved for installation.
- (h) Structural deficiencies in a historic resource shall be corrected without visually changing the composition, design, texture or other visual qualities.

Finding: The HLC finds that the applicant has not proposed any plans to correct structural deficiencies as part of this proposal and therefore SRC 230.065(h) does not apply to the

HIS16-16 July 22, 2016 Page 3

evaluation of this proposal.

(i) Excavation or re-grading shall not be allowed adjacent to or within the site of a historic resource which could cause the foundation to settle, shift, or fail, or have a similar effect on adjacent historic resources.

Finding: The HLC finds that the applicant has not proposed an excavation or regrading as part of this proposal and therefore SRC 230.065 (i) does not apply to the evaluation of this proposal.

DECISION: The Historic Landmarks Commission APPROVES the HIS16-16 proposal with the following CONDITION:

Condition 1: Any new or replacement communication device(s), including but not limited to dishes, antennas and associated equipment shall not exceed the total number and cumulative size of the dishes, antennas and associated equipment currently approved for installation.

VOTE: YES 5 NO 0 ABST 0 ABSENT 3 (Carmichael, Sund, Timbrook)

G:\CD\PLANNING\HISTORIC\DECISIONS\2016\HIS16-16 1313 Mill. Dec.doc