Exhibit B

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EXHIBIT B
DRAFT RESOLUTION

Before the Zoning Administrator in and for the County of Monterey, State of California

In the matter of the application of:
KEETON (AT&T MOBILITY) (PLN160825)

RESOLUTION NO. ----

Resolution by the Monterey County Zoning Administrator:

1) Finding the project is for the replacement of a utility facility involving no expansion in capacity which qualifies as a Class "2" Categorical Exemption pursuant to Section 15302(c) of the CEQA Guidelines and there are no exceptions pursuant to Section 15300.2; and
2) Approving a Coastal Development Permit and Design Approval to allow the replacement of an existing 10-foot tall guyed tower containing 2 microwave antennas with a new 22-foot tall guyed tower containing 2 microwave antennas in approximately the same footprint.

[PLN160825, Keeton, Richard & Susan and Don A. Mc Queen (AT&T Mobility), East of the intersection of State Highway 1 and Kyle Perine Road, Big Sur, Big Sur Coast Land Use Plan (APN: 419-201-005-000)]

The Coastal Development Permit and Design Approval application (PLN160825) came on for public hearing before the Monterey County Zoning Administrator on January 25, 2018. Having considered all the written and documentary evidence, the administrative record, the staff report, oral testimony, and other evidence presented, the Zoning Administrator finds and decides as follows:

FINDINGS AND EVIDENCE

1. **FINDING:** **CONSISTENCY** – The Project, as conditioned, is consistent with the applicable plans and policies which designate this area as appropriate for development.

EVIDENCE: a) During the course of review of this application, the project has been reviewed for consistency with the text, policies, and regulations in:

- the 1982 Monterey County General Plan (General Plan);
- Big Sur Coast Land Use Plan (BS LUP);
- Monterey County Coastal Implementation Plan, Part 3 (BS CIP)
- Monterey County Zoning Ordinance (Title 20);

No conflicts were found to exist. No communications were received during the course of review of the project indicating any inconsistencies with the text, policies, and regulations in these documents.

b) The property is located east of the intersection of State Highway 1 and Kyle Perine Road, Big Sur (Assessor's Parcel Number 419-201-005-000), Big Sur Coast Land Use Plan area. The parcel is zoned Watershed and Scenic Conservation, 40-acres per unit, Design Control District, Coastal Zone or "WSC/40-D(CZ)," which allows establishment of a wireless communications facility subject to approval of a Coastal Development Permit pursuant to Section 20.17.050.KK of Title 20. The project is for the replacement of an existing wireless communication facility (WCF) consisting of a 10-foot tall guyed tower containing 2 microwave antennas with a new 22-foot tall guyed tower containing 2 microwave antennas within approximately the same footprint. The project is consistent with conditionally allowed uses on the property and is therefore an allowed land use for this site.

c) Site Development Standards – The WSC zoning district provides site development standards that developments shall comply with. Section 20.17.060.C.3 of Title 20 requires non-habitable structures to maintain a front setback of no more than 50-feet and side and rear yard setbacks of no more than 6-feet. The WFC is sited approximately 630-feet from the State Highway 1, 120-feet from the eastern property line (side), and over 1,000-feet from the northern property line (rear). The lease area containing the WCF is 100-square feet (10-feet by 10-feet) in size and is located within a non-exclusive easement for utilities and access. The applicant has provided documentation verifying granting of the lease holder's right access, install, construct, maintain, restore, replace, and operate the WCF in the lease area.

d) Design Control District - The purpose of the Design Control or "D" district is to provide regulation of location, size, configuration, materials, and colors of structures where design review is appropriate to assure protection of the public viewshed and/or neighborhood character. The project includes an increased height of an existing tower by 12-feet, resulting in a new 22-foot high tower. Policy 3.2.2.1 of the Big Sur Coast Land Use Plan defines critical viewshed as everything within sight of State Highway 1 and major public viewing areas. The elevation of State Highway 1 in the project area is roughly 180-feet above mean sea level (AMSL), whereas the development area is surveyed to be at 473-feet AMSL. Thick vegetation surrounds the development area and consists of low brush and tall trees. Based on the elevation difference, vegetative screening, and the height of the proposed structure, the WCF cannot be seen from State Highway 1 is therefore not in the critical viewshed. In accordance with Section 20.64.310.C.5 of Title 20, the applicant submitted visual simulations of the replacement WCF, demonstrating no increase in visibility. Implementation of the project will not result in new views of the structure within the neighborhood or public viewshed.

e) Land Disturbance – Implementation of the project will result in very little land disturbance. The proposed project includes replacement of a WCF in approximately the same location as the pre-existing WCF. The

existing tower will be dismantled and hauled off-site and the existing 2-foot by 4-foot concrete pad that the tower and equipment shelter sits upon will be demolished. The applicant proposes to construct the new 2-foot by 4-foot concrete pad and tower in the same footprint as the existing. Proposed development that would take place outside of the existing footprint would be the installation of 3 new guy wires.

f) The proposed development is consistent with regulations for WCFs contained in Section 20.64.310 of Title 20. See subsequent Finding No. 6 for further discussion.

g) The project was referred to the Big Sur Land Use Advisory Committee (LUAC) for review on February 28, 2017. Based on the LUAC Procedure guidelines adopted by the Monterey County Board of Supervisors, this application warranted referral to the LUAC because approving hearing body for the project is the Zoning Administrator. No public comments were received and the committee had no issues, concerns, or suggested changes to the project. The LUAC recommended approval of the project, as proposed, by a vote of 3 to 0, with 1 member absent.

h) The project planner conducted a site inspection on February 28, 2017 to verify that the project on the subject parcel conforms to the plans listed above.

i) The application, project plans, and related support materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development found in Project File PLN160825.

2. **FINDING:** **SITE SUITABILITY –** The site is physically suitable for the use proposed.

EVIDENCE:

a) The project has been reviewed for site suitability by the following departments and agencies: RMA- Planning, Cal-Fire Coastal, RMA-Public Works, RMA-Environmental Services, Environmental Health Bureau, and Water Resources Agency. There has been no indication from these departments/agencies that the site is not suitable for the proposed development and any conditions recommended have been incorporated.

b) Staff did not identify potential impacts to protected resources. In addition, the exposure to radio frequency emissions are within the Federal Communications Commission guidelines (see subsequent Finding Nos. 3 and 6). Therefore, the project is suitable for the site.

c) Staff conducted a site inspection on February 28, 2017 to verify that the site is suitable for this use.

d) The application, project plans, and related support materials submitted by the project applicant to the Monterey County RMA - Planning for the proposed development found in Project File PLN160825.

3. **FINDING:** **HEALTH AND SAFETY -** The establishment, maintenance, or operation of the use or structure applied for, will not, under the circumstances of the particular case, be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such proposed use; or be detrimental or

injurious to property and improvements in the neighborhood; or to the general welfare of the County.

EVIDENCE:

a) The project was reviewed by RMA - Planning, Cal-Fire Coastal, RMA - Public Works, Environmental Health Bureau, RMA - Environmental Services, and Water Resources Agency. The respective agencies have recommended conditions, where appropriate, to ensure that the project will not have an adverse effect on the health, safety, and welfare of persons either residing or working in the neighborhood.

b) Necessary public facilities are and will be available to the wireless communication facility (WCF). Access to the project site will be through an existing lease agreement granting AT&T Mobility the right to access the 100-square foot lease area on the subject property through an existing non-exclusive access easement. The WCF will be unmanned and therefore will not require potable water or sewer services.

c) The applicant submitted documentation stating that according to the manufacturer's specifications for the replacement antennas, the maximum power rating for transmitting radio frequency is below the mandatory effective radiating power (ERP), consistent with FCC regulations contained in Sections 1.1307; 1.1310; and 2.1093 of Title 47 of the Code of Federal Regulations.

d) Staff conducted a site inspection on February 28, 2017 to verify that the site is suitable for this use.

e) The application, project plans, and related support materials submitted by the project applicant to the Monterey County RMA - Planning for the proposed development found in Project File PLN160825.

4. **FINDING:** **NO VIOLATIONS -** The subject property is in compliance with all rules and regulations pertaining to zoning uses, subdivision, and any other applicable provisions of the County's zoning ordinance. No violations exist on the property.

EVIDENCE:

a) Staff reviewed Monterey County RMA - Planning and Building Services Department records and is not aware of any violations existing on subject property. There are no known violations on the subject parcel.

b) Staff conducted a site inspection on February 28, 2017 and researched County records to assess if any violation exists on the subject property.

c) The application, plans and supporting materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development are found in Project File PLN160825.

5. **FINDING:** **CEQA (Exempt): -** The project is categorically exempt from environmental review and no unusual circumstances were identified to exist for the proposed project.

EVIDENCE:

a) California Environmental Quality Act (CEQA) Guidelines Section 15302(c) categorically exempts the replacement of a utility facility involving no expansion in capacity. The proposed project includes the replacement of a WCF, also referred to as "Big Sur MW Repeater." The existing WCF serves a backhaul site between two existing coverage sites ("Point Sur," located at the Point Sur Lighthouse, Point Sur State Historic State Park northwest of the subject property and "Big Sur,"

located at the Post Ranch Inn southeast of the subject property) as fiber-optic cables (hard wired) exist at the Big Sur coverage site and the Big Sur MW Repeater site, but not at the Point Sur coverage site. Due to the height of the existing towers, topography, and vegetation in the area, direct line of site, providing a wireless connection) between Big Sur and Point Sur is not feasible. Therefore, in order to provide the Point Sur site with bandwith, the Big Sur MW Repeater site receives microwave signals from the Big Sur site then transmits, or repeats, the signal to the Point Sur site and vice versa. The WCF does not provide coverage capabilities onsite and therefore will have no expansion in coverage as a result of project implementation.

b) None of the exceptions under CEQA Guidelines Section 15300.2 apply to this project. The project is not located on a hazardous waste site, near a scenic highway or historical resource. Replacement of the WCF will occur in approximately the same footprint as the existing WCF. The existing tower will be dismantled and hauled off-site and the existing 2-foot by 4-foot concrete pad that the tower and equipment shelter sits upon will be demolished. A new 2-foot by 4-foot concrete pad will be constructed and 22-foot tall tower with 2 microwave antennas and an equipment shelters will be construction upon the pad. Majority of the proposed development is confined within a pre-disturbed area except for the installation of 3 new guy wires. As a result, project implementation would result in very little land disturbance on an existing WCF site. The project would not contribute to a cumulative impact as there are no other wireless communication facilities in proximity of the project site.

c) Staff conducted a site inspection on February 28, 2017 to verify that the site and proposed project meet the criteria for an exemption. No adverse environmental effects were identified during staff review of the development application during this site visit.

d) The application, project plans, and related support materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development found in Project File PLN160825.

6. **FINDING:** **WIRELESS COMMUNICATION FACILITIES** – The development of the proposed wireless communications facility will not significantly affect any designated public viewing area, scenic corridor or any identified environmentally sensitive area or resources. The site is adequate for the proposed development of the wireless communication facility and the applicant has demonstrated that it is the most adequate for the provision of services as required by the Federal Communications Commission. The proposed wireless communication facility complies with all the applicable requirements of Monterey County Code section 20.64.310. The subject property on which the wireless communication facility is to be built is in compliance with all rules and regulations pertaining to zoning uses, subdivisions and any other provisions of Title 20 and that all zoning violation abatement costs, if any, have been paid. The proposed telecommunication facility will not create a hazard for aircraft in flight.

EVIDENCE: a) The proposed project includes the replacement of a WCF, also referred to as “Big Sur MW Repeater.” The existing WCF serves a backhaul site

between two existing coverage sites ("Point Sur," located at the Point Sur Lighthouse, Point Sur State Historic State Park northwest of the subject property and "Big Sur," located at the Post Ranch Inn southeast of the subject property) as fiber-optic cables (hard wired) exist at the Big Sur coverage site and the Big Sur MW Repeater site, but not at the Point Sur coverage site. Due to the height of the existing towers, topography, and vegetation in the area, direct line of site, providing a wireless connection) between Big Sur and Point Sur is not feasible. Therefore, in order to provide the Point Sur site with bandwith, the Big Sur MW Repeater site receives microwave signals from the Big Sur site then transmits, or repeats, the signal to the Point Sur site and vice versa. The WCF does not and will not provide coverage as a result of project implementation.

b) Zoning Requirements – The project includes replacement of a WCF in approximately the same footprint as an existing WCF. The existing tower will be dismantled and hauled off-site and the existing 2-foot by 4-foot concrete pad that the tower and equipment shelter sits upon will be demolished. A new 2-foot by 4-foot concrete pad will be constructed and 22-foot tall tower with 2 microwave antennas and an equipment shelters will be construction upon the pad. Majority of the proposed development is confined within a pre-disturbed area except for the installation of 3 new guy wires. As a result, project implementation would result in very little land disturbance on an existing WCF site. The existing tower will be dismantled and hauled off-site, the existing 2-foot by 4-foot concrete pad that the tower and equipment shelter sits upon will be demolished, and a new 2-foot by 4-foot concrete pad and 22-foot tall with 2 microwave antennas will be constructed within the same footprint as the existing. The subject property is zoned Watershed and Scenic Conservation, 40-acres per unit, Design Control District, Coastal Zone or "WSC/40-D(CZ)," which allows establishment of a wireless communications facility subject to approval of a Coastal Development Permit pursuant to Section 20.17.050.KK of Title 20. Therefore, the WCF is an allowed use on the property.

c) Public Viewing Area/Scenic Corridor – In accordance with Section 20.64.310.H.1.a of Title 20, site location and development of WCFs shall preserve the visual character and aesthetic values of the specific parcel and surrounding land uses; thus, facilities shall be integrated to the maximum extent feasible to the existing characteristics of the site. As discussed in preceding Finding No. 1, Evidence "d," the subject property is not visible from a public viewing area or scenic corridor and would not impact the existing visual character and aesthetic value of the site.

d) Environmentally Sensitive Area – The subject property is located within California Red-Legged Frog Critical Habitat Unit MNT-3 (see Fish and Wildlife Service 50 CFR Part 17, effective April 16, 2010) which is over 40-square miles. Based in this identification and pursuant to Title 47 of the Code of Federal Regulations (47 CFR), the applicant prepared a "NEPA-FCC Screening Report" or "Focused Checklist Evaluation." Although the development site does not contain hydric soils or hydrophytic vegetation indicative of a wetlands or

vegetation qualifying it as riparian habitat which would provide an aquatic breeding and non-breeding habitat, the checklist identified several precautionary measures based on its location within critical habitat. These measures include avoiding construction during rainy or drizzly conditions and installing erosion control best management practices.

e) Adequate Site for Use – Replacement of the WCF will be confined within an existing lease area and will occur approximately within the existing footprint (see preceding Evidence "a" and "b"), resulting in very little land disturbance on an existing WCF site. Therefore, the site is adequate and appropriate for its intended purpose and the project will not result in an additional WCF in the area.

f) Co-location Availability – Regulations call for co-location to the maximum extent feasible. However, since the proposed project includes replacement of a WCF within approximately the same footprint (see preceding Evidence "a" and "b"), co-location was not explored as a ideal alternative.

g) Co-location Potential – The intended purpose of the WCF on the site is to provide a microwave repeater site between two different coverage sites (see preceding Evidence "a") and it does not provide coverage capabilities onsite. Therefore, the potential for co-location was not explored. However, in accordance with Section 20.64.310 of Title 20, condition No. 8 has been incorporated encouraging future co-location if feasible.

h) Alternative Site Location – Regulations call for the exploration of alternative sites. The proposed project includes replacement of a WCF where there is an existing line of site two coverage sites (see preceding Evidence "a"). Therefore, alternative site locations were not found necessary to explore as a feasible alternative.

i) Alternative Design – As discussed in preceding Evidence "c," the replacement WCF was not found to create and impact to the existing visual character of the site or area. Therefore, exploration of an alternative design was not required.

j) The project is consistent with Section 20.92 (Airport Approaches Zoning) and does not require review by the Monterey County Airport Land Use Commission. Aircraft zones identified in Sections 20.92.040 and 20.92.050 of Title 20 are not affected by project implementation and the proposed height is within limitations outlined in Section 20.92.060 of Title 20.

k) The project does not penetrate a FAR Part 77 Imaginary Surface since it is not located within five (5) miles of an airport (Monterey Peninsula, Salinas Municipal, Mesa Del Rey/King City, Carmel Valley, or Fritzsche Army/Fort Ord).

l) Consistent Section 20.64.310 of Title 20, standard conditions for WCFs have been incorporated requiring indemnification, reduction of visual impacts, encouraging co-location (if feasible in the future), site restoration upon termination/abandonment, and ongoing compliance with FCC emission standards. See Condition Nos. 6 through 10.

7. **FINDING:** **APPEALABILITY -** The decision on this project may be appealed to the Board of Supervisors and the California Coastal Commission.

EVIDENCE: a) Section 20.86.010 and 20.86.020 of the Monterey County Zoning Ordinance (Title 20) states that the proposed project is appealable to the Board of Supervisors.

b) Section 20.86.080.A.3 of the Monterey County Zoning Ordinance (Title 20) states that the proposed project is subject to appeal by/to the California Coastal Commission because the proposed project is permitted as a conditional use in the Watershed and Scenic Conservation zoning district.

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Zoning Administrator does hereby:

1. Find the project is for the replacement of a utility facility involving no expansion in capacity which qualifies as a Class "2" Categorical Exemption pursuant to Section 15302(c) of the CEQA Guidelines and there are no exceptions pursuant to Section 15300.2; and
2. Approve a Coastal Development Permit and Design Approval to allow the replacement of an existing 10-foot tall guyed tower containing 2 microwave antennas with a new 22-foot tall guyed tower containing 2 microwave antennas in approximately the same location;

in general conformance with the attached sketch and subject to 11 conditions, both being attached hereto and incorporated herein by reference.

PASSED AND ADOPTED this 25th day of January, 2018:

_____

Mike Novo, Zoning Administrator

COPY OF THIS DECISION MAILED TO APPLICANT ON:

THIS APPLICATION IS APPEALABLE TO THE BOARD OF SUPERVISORS.

IF ANYONE WISHES TO APPEAL THIS DECISION, AN APPEAL FORM MUST BE COMPLETED AND SUBMITTED TO THE CLERK TO THE BOARD ALONG WITH THE APPROPRIATE FILING FEE ON OR BEFORE:

THIS PROJECT IS LOCATED IN THE COASTAL ZONE AND IS APPEALABLE TO THE COASTAL COMMISSION. UPON RECEIPT OF NOTIFICATION OF THE FINAL LOCAL ACTION NOTICE (FLAN) STATING THE DECISION BY THE FINAL DECISION MAKING BODY, THE COMMISSION ESTABLISHES A 10 WORKING DAY APPEAL PERIOD. AN APPEAL FORM MUST BE FILED WITH THE COASTAL COMMISSION. FOR FURTHER INFORMATION, CONTACT THE COASTAL COMMISSION AT (831) 427-4863 OR AT 725 FRONT STREET, SUITE 300, SANTA CRUZ, CA

This decision, if this is the final administrative decision, is subject to judicial review pursuant to California Code of Civil Procedure Sections 1094.5 and 1094.6. Any Petition for Writ of Mandate must be filed with the Court no later than the 90th day following the date on which this decision becomes final.

NOTES

1. You will need a building permit and must comply with the Monterey County Building Ordinance in every respect.

   Additionally, the Zoning Ordinance provides that no building permit shall be issued, nor any use conducted, otherwise than in accordance with the conditions and terms of the permit granted or until ten days after the mailing of notice of the granting of the permit by the appropriate authority, or after granting of the permit by the Board of Supervisors in the event of appeal.

   Do not start any construction or occupy any building until you have obtained the necessary permits and use clearances from Monterey County RMA-Planning and RMA-Building Services Department office in Salinas.

2. This permit expires 3 years after the above date of granting thereof unless construction or use is started within this period.

Form Rev. 5-14-2014

Monterey County RMA Planning

DRAFT Conditions of Approval/Implementation Plan/Mitigation Monitoring and Reporting Plan

PLN160825

1. PD001(A) SPECIFIC USES ONLY (WIRELESS COMMUNICATION FACILITIES)

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: This Coastal Development Permit and Design Approval (PLN160825) allows the replacement of an existing 10-foot tall guyed tower and 2 microwave antennas with a 22-foot tall guyed tower and 2 new microwave antennas in approximately the same location. The property is located east of the intersection of State Highway 1 and Kyle Perine Road (Assessor's Parcel Number 419-201-005-000), Big Sur Coast Land Use Plan. This permit was approved in accordance with County ordinances and land use regulations subject to the following terms and conditions. The term "applicant" or "owner/applicant" as used in these conditions means Applicant* and its successors and assigns. Neither the uses nor the construction allowed by this permit shall commence unless and until all of the conditions of this permit are met to the satisfaction of the Director of the RMA - Planning. Any use or construction not in substantial conformance with the terms and conditions of this permit is a violation of County regulations and may result in modification or revocation of this permit and subsequent legal action. No use or construction other than that specified by this permit is allowed unless additional permits are approved by the appropriate authorities. To the extent that the County has delegated any condition compliance or mitigation monitoring to the Monterey County Water Resources Agency, the Water Resources Agency shall provide all information requested by the County and the County shall bear ultimate responsibility to ensure that conditions and mitigation measures are properly fulfilled. (RMA - Planning)

Compliance or Monitoring Action to be Performed: The Applicant (Applicant*) and its successors and assigns shall adhere to conditions and uses specified in the permit on an ongoing basis unless otherwise stated.

2. PD002 - NOTICE PERMIT APPROVAL

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The applicant shall record a Permit Approval Notice. This notice shall state:
"A Coastal Development Permit and Design Approval (Resolution Number ***) was approved by the Zoning Administrator for Assessor's Parcel Number 419-201-005-000 on January 25, 2017. The permit was granted subject to 11 conditions of approval which run with the land. A copy of the permit is on file with Monterey County RMA - Planning."

Proof of recordation of this notice shall be furnished to the Director of RMA - Planning prior to issuance of grading and building permits, Certificates of Compliance, or commencement of use, whichever occurs first and as applicable. (RMA - Planning)

Compliance or Monitoring Action to be Performed: Prior to the issuance of grading and building permits, certificates of compliance, or commencement of use, whichever occurs first and as applicable, the Owner/Applicant shall provide proof of recordation of this notice to the RMA - Planning.

3. PD003(A) - CULTURAL RESOURCES NEGATIVE ARCHAEOLOGICAL REPORT

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: If, during the course of construction, cultural, archaeological, historical or paleontological resources are uncovered at the site (surface or subsurface resources) work shall be halted immediately within 50 meters (165 feet) of the find until a qualified professional archaeologist can evaluate it. Monterey County RMA - Planning and a qualified archaeologist (i.e., an archaeologist registered with the Register of Professional Archaeologists) shall be immediately contacted by the responsible individual present on-site. When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for recovery.
(RMA - Planning)

Compliance or Monitoring Action to be Performed: The Owner/Applicant shall adhere to this condition on an on-going basis.

Prior to the issuance of grading or building permits and/or prior to the recordation of the final/parcel map, whichever occurs first, the Owner/Applicant shall include requirements of this condition as a note on all grading and building plans. The note shall state "Stop work within 50 meters (165 feet) of uncovered resource and contact Monterey County RMA - Planning and a qualified archaeologist immediately if cultural, archaeological, historical or paleontological resources are uncovered."

When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for the discovery.

4. PD006(A) - CONDITION COMPLIANCE FEE

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The Owner/Applicant shall pay the Condition Compliance fee, as set forth in the fee schedule adopted by the Board of Supervisors, for the staff time required to satisfy conditions of approval. The fee in effect at the time of payment shall be paid prior to clearing any conditions of approval.

Compliance or Monitoring Action to be Performed: Prior to clearance of conditions, the Owner/Applicant shall pay the Condition Compliance fee, as set forth in the fee schedule adopted by the Board of Supervisors.

5. PD007- GRADING WINTER RESTRICTION

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: No land clearing or grading shall occur on the subject parcel between October 15 and April 15 unless authorized by the Director of RMA - Building Services. (RMA - Planning and RMA - Building Services)

Compliance or Monitoring Action to be Performed: The Owner/Applicant, on an on-going basis, shall obtain authorization from the Director of RMA - Building Services Department to conduct land clearing or grading between October 15 and April 15.

6. PD039(A) - WIRELESS INDEMNIFICATION

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The applicant agrees as a condition and in consideration of the approval of the permit to enter into an indemnification agreement with the County whereby the applicant agrees to defend, indemnify, and hold harmless the County, its officers, agents and employees from actions or claims of any description brought on account of any injury or damages sustained by any person or property resulting from the issuance of the permit and conduct of the activities authorized under said permit. Applicant shall obtain the permission of the owner on which the wireless communication facility is located to allow the recordation of said indemnification agreement, and the applicant shall cause said indemnification agreement to be recorded by the County Recorder as a prerequisite to the issuance of the building and/or grading permit. The County shall promptly notify the applicant of any such claim, action, or proceeding and the County shall cooperate fully in the defense thereof. The County may, at its sole discretion, participate in the defense of such action, but such participation shall not relieve applicant of its obligations under this condition. (RMA - Planning)

Compliance or Monitoring Action to be Performed: Prior to the issuance of grading or building permits, the Owner/Applicant shall submit signed and notarized Indemnification Agreement to the Director of RMA-Planning for review and signature by the County.

Prior to the issuance of grading or building permits, the Owner/Applicant shall submit proof of recordation of the Indemnification Agreement, as outlined, to RMA-Planning.

7. PD039(B) - WIRELESS REDUCE VISUAL IMPACTS

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The applicant shall agree in writing that if future technological advances allow for reducing the visual impacts of the telecommunication facility, the applicant shall make modifications to the facility accordingly to reduce the visual impact as part of the facility's normal replacement schedule. (RMA - Planning)

Compliance or Monitoring Action to be Performed: Prior to the issuance of grading or building permits, the Owner/Applicant shall submit, in writing, a declaration agreeing to comply with the terms of this condition RMA - Planning for review and approval.

8. PD039(C) - WIRELESS CO-LOCATION

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The applicant and/or successors assigns shall encourage co-location by other wireless carriers on this tower assuming appropriate permits are approved for co-location. Any expansion or additions of microwave dishes, antennas and/or similar appurtenances located on the monopole, which are not approved pursuant to this permit, are not allowed unless the appropriate authority approves additional permits or waivers. In any case, the overall height of the pole shall not exceed the specified height. (RMA - Planning)

Compliance or Monitoring Action to be Performed: On an on-going basis, the Owner/Applicant shall encourage co-location by other wireless carriers on this tower assuming appropriate permits are approved for co-location. The overall height of the pole shall not exceed 22 feet.

9. PD039(D) - WIRELESS REMOVAL

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: If the applicant abandons the facility or terminates the use, the applicant shall remove the monopole, panel antennas, and equipment shelter. Upon such termination or abandonment, the applicant shall enter into a site restoration agreement subject to the approval of the Director of RMA - Planning and County Counsel. The site shall be restored to its natural state within six (6) months of the termination of use or abandonment of the site.
(RMA - Planning)

Compliance or Monitoring Action to be Performed: Prior to abandoning the facility or terminating the use, the Owner/Applicant shall submit a site restoration agreement to RMA - Planning subject to the approval of the RMA - Director of Planning and County Counsel.

Within 6 months of termination of use or abandonment of the site, the Owner Applicant shall restore the site to its natural state.

10. PD039(E) - WIRELESS EMISSION

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The facility must comply with Federal Communications Commission (FCC) emission standards. If the facility is in violation of FCC emission standards, the Director of RMA - Planning shall set a public hearing before the Appropriate Authority whereupon the appropriate authority may, upon a finding based on substantial evidence that the facility is in violation of the then existing FCC emission standards, revoke the permit or modify the conditions of the permit. (RMA - Planning)

Compliance or Monitoring Action to be Performed: Prior to commencement of use and on an on-going basis, the Owner/Applicant shall submit documentation demonstrating compliance with the FCC emission standards to the Director of RMA-Planning for review and approval.

On an on-going basis, if the facility is in violation of FCC emission standards, the Director of RMA-Planning shall set a public hearing before the Appropriate Authority to consider revocation or modification of the permit.

11. PD050 - RAPTOR/MIGRATORY BIRD NESTING

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: Any tree removal activity that occurs during the typical bird nesting season (February 22-August 1), the County of Monterey shall require that the project applicant retain a County qualified biologist to perform a nest survey in order to determine if any active raptor or migratory bird nests occur within the project site or within 300 feet of proposed tree removal activity. During the typical nesting season, the survey shall be conducted no more than 30 days prior to ground disturbance or tree removal. If nesting birds are found on the project site, an appropriate buffer plan shall be established by the project biologist. (RMA - Planning)

Compliance or Monitoring Action to be Performed: No more than 30 days prior to ground disturbance or tree removal, the Owner/Applicant/Tree Removal Contractor shall submit to RMA-Planning a nest survey prepare by a County qualified biologist to determine if any active raptor or migratory bird nests occur within the project site or immediate vicinity.

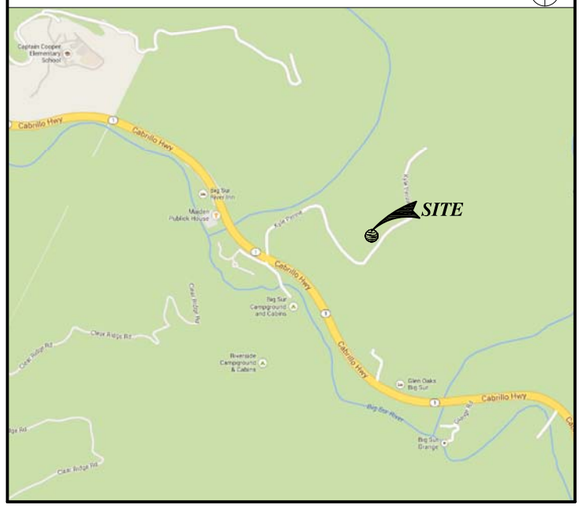
BIG SUR MW REPEATER
47000 HIGHWAY 1
BIG SUR, CALIFORNIA 93920
FA# 13232471
NOVA PROJECT ID: WES-MW-06150

SPECIAL INSPECTIONS

1	CONCRETE	13.1	VERIFY SOIL CONDITIONS ARE SUBSTANTIALLY IN CONFORMANCE WITH THE SOIL INVESTIGATION REPORT
2	BOLTS INSTALLED IN CONCRETE	13.2	VERIFY THAT FOUNDATION EXCAVATIONS EXTEND TO PROPER DEPTH AND BEARING STRATA
3	CONCRETE MOMENT-RESISTING SPACE FRAME	13.3	PROVIDE SOIL COMPACTION TEST RESULTS, DEPTH OF FILL, RELATIVE DENSITY, BEARING VALUES
4	REINFORCING STEEL AND PRESTRESSING STEEL	13.4	PROVIDE SOIL EXPANSION TEST RESULTS, EXPANSION INDEX, RECOMMENDATIONS FOR FOUNDATIONS, ON-GRADE FLOOR SLAB DESIGN FOR EACH BUILDING SITE
5.1	ALL STRUCTURAL WELDING	14	SMOKE CONTROL SYSTEM
5.2	WELD TESTING DUCTILE MOMENT-RESISTING STEEL FRAME	15	SPECIAL CASES (DESCRIBE)
5.3	WELDING REINFORCING STEEL	16	OFF-SITE FABRICATION OF BUILDING COMPONENTS
6	HIGH-STRENGTH BOLTING	17	OTHER SPECIAL INSPECTIONS AS REQUIRED BY DESIGNER
7	STRUCTURAL MASONRY		
8	REINFORCED GYPSUM CONCRETE		
9	INSULATING CONCRETE FILL		
10	SPRAY-APPLIED FIREPROOFING		
11	DEEP FOUNDATIONS (PILING, DRILLED & CAISSONS)		
12	SHOTCRETE		

NO.	DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS.

VICINITY MAP



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CONTACT: JEFF LIENERT

DEVELOPMENT SUMMARY

APPLICANT:	**AT&T MOBILITY** 2600 CAMINO RAMON BOULEVARD SAN RAMON, CALIFORNIA 94583
PROPERTY OWNER:	**DON MCQUEEN AND RICHARD & SUSAN KEETON** P.O. BOX 249 BIG SUR, CALIFORNIA 93920-0249
TOWER OWNER:	**AT&T**
OTHER ON-SITE TELECOM FACILITIES:	YES
ASSESSORS PARCEL NUMBER:	419-201-005
LATITUDE:	36° 16' 7.00" N 36.2686°
LONGITUDE:	121° 48' 8.00" W -121.8022°
LAT/LONG TYPE:	NAD-83
ELEVATION:	473.0' AMSL
PROPOSED PROJECT AREA:	NO INCREASE IN S.F.
EXISTING TYPE OF CONSTRUCTION:	TYPE V-B
PROPOSED TYPE OF CONSTRUCTION:	TYPE V-B
EXISTING OCCUPANCY:	U-2
PROPOSED OCCUPANCY:	U-2
JURISDICTION:	COUNTY OF MONTEREY

SHEET INDEX

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2013 CALIFORNIA BUILDING CODE AND LOCAL AMENDMENTS
2013 CALIFORNIA MECHANICAL CODE AND LOCAL AMENDMENTS
2013 CALIFORNIA ELECTRIC CODE AND LOCAL AMENDMENTS
2013 CALIFORNIA PLUMBING CODE AND LOCAL AMENDMENTS
2013 CALIFORNIA FIRE CODE AND LOCAL AMENDMENTS
2013 CALIFORNIA ENERGY CODE
2013 CALIFORNIA REFERENCED STANDARD CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

LIFE SAFETY NOTE

1. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OVERHEAD POWER LINES AT ALL TIMES.
2. CONTRACTOR TO VERIFY OVERHEAD POWER LINE HEIGHT IN FIELD.

PROJECT DESCRIPTION

AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED WIRELESS COMMUNICATIONS FACILITY. THIS MODIFICATION WILL CONSIST OF THE FOLLOWING:

- REMOVE EXISTING (2) MICROWAVE ANTENNAS.
- REMOVE EXISTING GUYED TOWER.
- INSTALL NEW 22'-0" GUYED TOWER.
- INSTALL NEW (2) 4'-0"ø MICROWAVE ANTENNAS AT A 20'-0" RAD CENTER.
- INSTALL NEW (4) ODU'S.
- INSTALL NEW (4) RUNS OF FIBER AND (4) RUNS OF COAX IN NEW 2"ø INNERDUCT.
- INSTALL NEW MICROWAVE RADIO EQUIPMENT IN EXISTING EQUIPMENT CABINET.
- REMOVE EXISTING CONCRETE PAD
- INSTALL NEW CONCRETE FOUNDATION FOR TOWER AND EQUIPMENT CABINET.

ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 24"X36" FORMAT. IF THIS DRAWING SET IS NOT 24"X36", THIS SET IS NOT TO SCALE.

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STAMP

LICENSED ARCHITECT JEFFREY L. ROME C-020876 EXPIR. FEB. 28,2017 STATE OF CALIFORNIA

PREPARED FOR

MasTec Network Solutions

APPROVALS

ANITA JEN	02/10/16
90% CDS	DATE
ANITA JEN	03/02/16
100% CDS	DATE
ANITA JEN	04/12/16
100% CDS WITH STRUCTURALS	DATE
MATHEW BRUNELLO	02/17/16
CONSTRUCTION	DATE
JEFF LIENERT	02/18/16
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
BIG SUR MW REPEATER

FA NUMBER
13232471

47000 HIGHWAY 1
BIG SUR, CALIFORNIA 93920

DRAWING DATES

02/10/16	95% CD REVIEW (P1-B1)
03/02/16	100% FINAL CDS (P1-B2)
04/12/16	STRUCTURALS (P1-B3)
09/12/16	PLANNING COMMENTS (P1-B4)
09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

TITLE SHEET

T-1

JRA JOB NUMBER: 152728

GENERAL SPECIFICATIONS

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.

2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

4. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.

5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.

6. CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

7. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

8. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH AT&T MOBILITY CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS.

9. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.

10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO AT&T MOBILITY.

11. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

12. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

    NRCA — NATIONAL ROOFING CONTRACTORS ASSOCIATION
    O'HARE INTERNATIONAL CENTER
    10255 W. HIGGENS ROAD, SUITE 600
    ROSEMONT, IL 60018

    SMACNA — SHEET METAL AND AIR CONDITIONING CONTRACTORS
    NATIONAL ASSOCIATION
    4201 LAFAYETTE CENTER DRIVE
    CHATILLY, VA 22021–1209

    ITLP — INTERNATIONAL INSTITUTE FOR LATH AND PLASTER
    820 TRANSFER ROAD
    ST. PAUL, MN 55114–1406

13. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

14. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.

15. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.

16. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND AT&T MOBILITY PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF AT&T MOBILITY, AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY AT&T MOBILITY UNDER THIS CONTRACT.

18. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY AT&T MOBILITY.

20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, AT&T MOBILITY, AND THE CITY OR GOVERNING AGENCY.

21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS–BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE AT&T MOBILITY CONSTRUCTION MANAGER.

22. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILEY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEAN–UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK.

24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.

25. ALL EXPOSED METAL SHALL BE HOT–DIPPED GALVANIZED.

26. SEAL ALL PENETRATIONS THROUGH FIRE–RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.

27. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2–A OR 2–A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.

28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.

29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.

30. UPON COMPLETION OF CONSTRUCTION, AT&T MOBILITY CONSTRUCTION MANAGER SHALL CONDUCT A WALK–THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY AT&T MOBILITY.

32. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATION TAKE PRECEDENCE.

ROOFING & WATERPROOFING NOTES

1. CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE AT&T MOBILITY PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTIRER'S SPECIFICATIONS.

2. CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILIAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.

3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.

4. IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE–NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE AT&T MOBILITY CONSTRUCTION MANAGER IN ADVANCE.

5. AT THE AT&T MOBILITY CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALKPADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES

1. AT THE AT&T MOBILITY PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRESTOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.

2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

PAINTING NOTES & SPECIFICATIONS

A. GENERAL

1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.

2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.

3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.

4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.

5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE AT&T MOBILITY CONSTRUCTION MANAGER.

6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON–HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC–SP1.

7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.

8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.

9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.

10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE AT&T MOBILITY CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

B. PAINTING SCOPE

1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE

SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.				
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				
STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.				
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREENWALLS				
DRYWALL				
CONCRETE POLES				
METAL POLES AND METAL POLE STAND–OFF				

C. COATING SYSTEM SPECIFICATIONS

1. DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).

2. 100% ACRYLIC, LATEX COATING EQUIVALENT TO A–100 (SERIES A–82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.

PAINT & PRIMER

D. ANTENNAS
PRIMER – KEM AQUA E61–W525
TOPCOAT – COROTHANE II B65W200/B60V22

BTS CABINET
PRIMER – KEM AQUA E61–W525
TOPCOAT – COROTHANE II B65W200/B60V22

COAXIAL JUMPER CABLES
PRIMER – AS REQUIRED FOR ADHESION. APPLY6 ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
TOPCOAT – 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

RAW STEEL
PRIMER – KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
TOPCOAT – 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

GALVANIZED METAL
ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)

STAINLESS STEEL
PRIMER – OTM WASH PRIMER, B71Y1
TOPCOAT – 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRE–PRIMED STEEL
TOUCH UP ANY RUST OR UN–PRIMED STEEL WITH KEM BOND HS, SS0WZ4

ALUMINUM & COPPER
PRIMER – DTM WASH PRIMER, B71Y1
TOPCOAT – 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

CONCRETE MASONRY
PRIMER – PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT – 2 COATS A–100 LATEX HOUSE & TRIM, SHEEN TO MATCH

CONCRETE STUCCO(EXISTING)
2 COATS A–100 LATEX HOUSE & TRIM, SHEEN TO MATCH

STUCCO
PRIMER – PRO MAR MASONRY CONDITONER B–46–W21000
TOPCOAT – SUPERPAINT A–80 SERIES A–89 SATIN A–84 GLOSS

WOOD
PRIMER – A–100 EXTERIOR ALKYD WOO9D PRIMER Y–24W20
TOPCOAT – 2 COATS A–100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES

GLU–LAM BEAMS
PRIMER – A–100 EXTERIOR ALKYD WOOD PRIMER Y–24W20
TWO COATS SHOP APPLIED PER GLU–LAM MANUFACTURER'S SPECIFICATIONS
TOPCOAT – SUPERPAINT A–80 SERIES A–89 SATIN A–84 GLOSS
TWO COATS SHOP OR FIELD APPLIED AT CONTRACTOR'S OPTION

FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)
FIRST & SECOND COAT – CUPRINOL CLEAR WOOD PRESERVATIVE #158–0356
ALL PENETRATIONS INTO FINISHED CLU–LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT

STEEL TOUCH UP
STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

STRUCTURAL SPECIFICATIONS

A. GENERAL

PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.

A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.

B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.

2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.

3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.

5. SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

6. WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.

B. STEEL

1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A–36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.

2. ALL BOLTS SHALL CONFORM TO ASTM A–307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A–325

3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.

4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.

5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE–APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.

6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
A. 250 AMP WELDERS.
B. ROD OVENS.
C. GRINDERS.

7. NO BUZZ BOXES SHALL BE USED.

8. ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.

9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.

10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.

11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALL NOTED "FULL STRESS" AT END OF WELD SYMBOL.

C. CONCRETE

1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:

LOCATION	STRENGTH	WT.	SLUMP	ADMIXTURE
A. SLAB&FOOTING	3000psi	150pcf	4"	NONE

2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.

3. REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:

#4 & SMALLER BARS................GRADE 40
#5 & LARGER BARS..................GRADE 60
ALL BARS AT CAISSON FOOTING...GRADE 60

4. CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C–150.
PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C–150.

5. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C–33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:

A. FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
B. PIER/CAISSON FOOTING: 1" GRAVEL.

6. WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.

7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C–94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.

8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREAGTION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.

9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.

10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:

A. CONCRETE IN CONTACT WITH EARTH, UNFORMED	3"
B. CONCRETE IN CONTACT WITH EARTH, FORMED	2"
C. WALL, EXTERIOR FACE	1–1/2"
D. WALL, INTERIOR FACE	1"
E. STRUCTURAL SLABS	3/4"
F. JOISTS	3/4"
G. BEAMS, GIRDERS & COLUMNS	1–1/2"

11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.

12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBBEDED IN A SLAB THAT IS LESS THAN 3–1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN COUNDUITS SHALL BE SIX INCHES.

13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC.,SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.

14. CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.

15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.

D. TIMBER

1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR., S45, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE ON DRAWINGS

3. STRIPPING, BLOCKING, BACKING AND OTHER NON–STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S45. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.

4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.

5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FGIELD NAIL WITH 8d AT 12" O.C.

6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPINDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.

7. PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1–83.

8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.

9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23–1–q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.

10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.

11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE–DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.

12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.

13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.

14. ALASKAN YELLOW CEDAR GLUE–LAMINATED BEAMS
A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F–V12
B. STRENGTH PROPERTIES:
Fb BOTTOM FIBER BENDING STRESS 2000psi MIN.
Fb TOP FIBER BENDING STRESS 1000psi MIN.
Fv SHEAR STRESS 190psi MIN.
Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN.
E MODULUS ELASTICITY 1400ksi MIN.
C. CAMBER TO RADIUS OF 1600' U.O.N.
D. ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
E. MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.
F. GLU–LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

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JEFFREY L. ROME
C–020876
EXP. FEB. 28,2017
STATE OF CALIFORNIA

PREPARED FOR

MasTec
Network Solutions

APPROVALS

ANITA JEN	02/10/16
90% CDS	DATE
ANITA JEN	03/02/16
100% CDS	DATE
ANITA JEN	04/12/16
100% CDS WITH STRUCTURALS	DATE
MATHEW BRUNELLO	02/17/16
CONSTRUCTION	DATE
JEFF LIENERT	02/18/16
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
BIG SUR MW REPEATER

FA NUMBER
13232471

47000 HIGHWAY 1
BIG SUR, CALIFORNIA 93920

DRAWING DATES

02/10/16	95% CD REVIEW (P1–B1)
03/02/16	100% FINAL CDS (P1–B2)
04/12/16	STRUCTURALS (P1–B3)
09/12/16	PLANNING COMMENTS (P1–B4)
09/30/16	CORRECTIONS (P1–B5)

SHEET TITLE

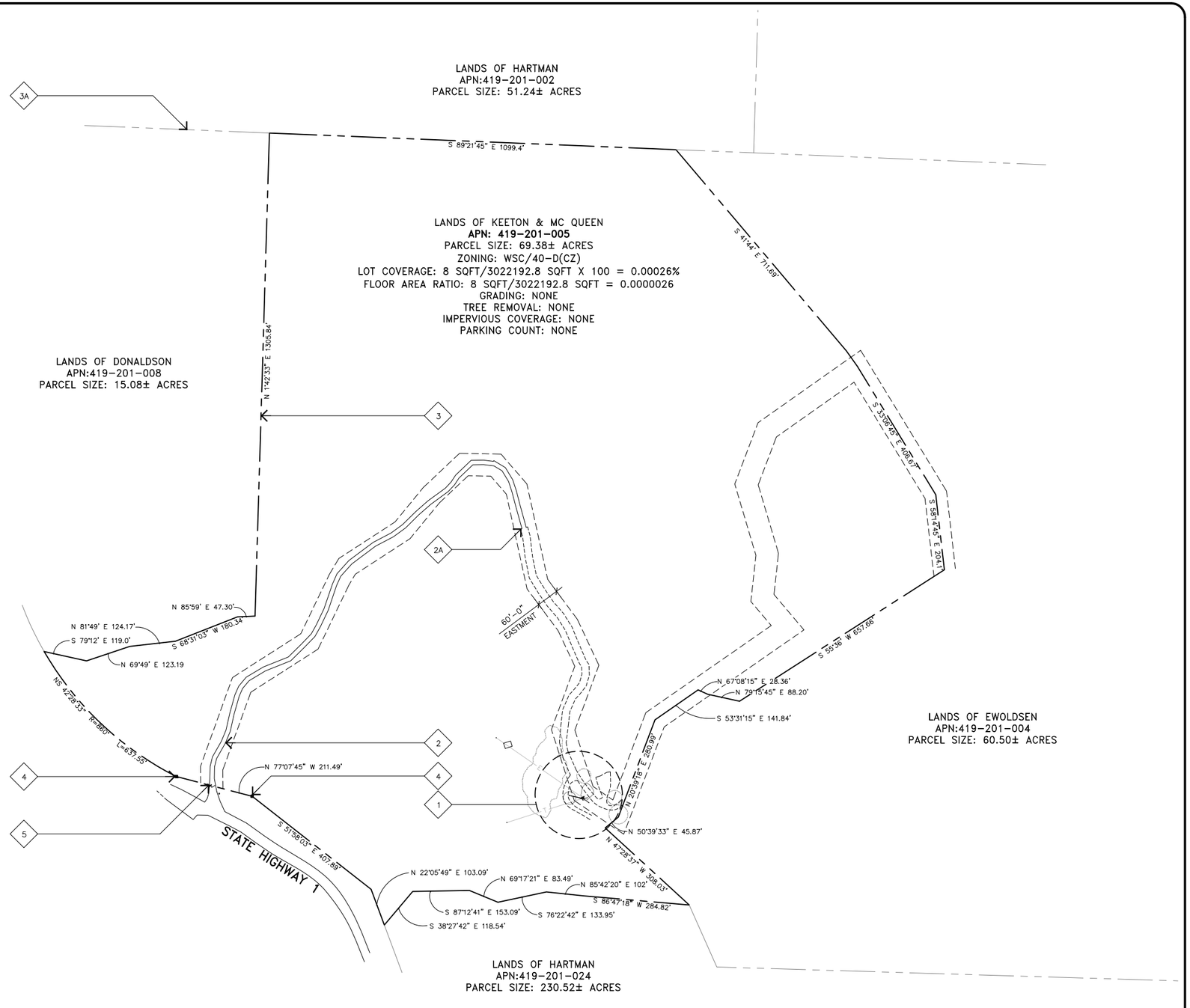
SPECIFICATIONS AND NOTES

T-2

JRA JOB NUMBER: 152728

SITE PLAN KEYNOTES

1. (E) AT&T LEASE AREA; SEE SHEET A-1.1.
2. (E) SITE ACCESS ROAD. 2,285± LINEAR FEET FROM GATE TO SITE TOWER.
2A. (E) SITE ACCESS ROAD. END OF ASPHALT AND START OF DIRT ROAD.
3. (E) PROPERTY LINE.
3A. (E) ADJACENT PROPERTY LINES.
4. (E) 6'x6' CONCRETE CALTRANS MONUMENT.
5. (E) SITE ACESS GATE.



N

SITE PLAN

SCALE: 1"=150'

0 35' 75' 150'

1

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09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

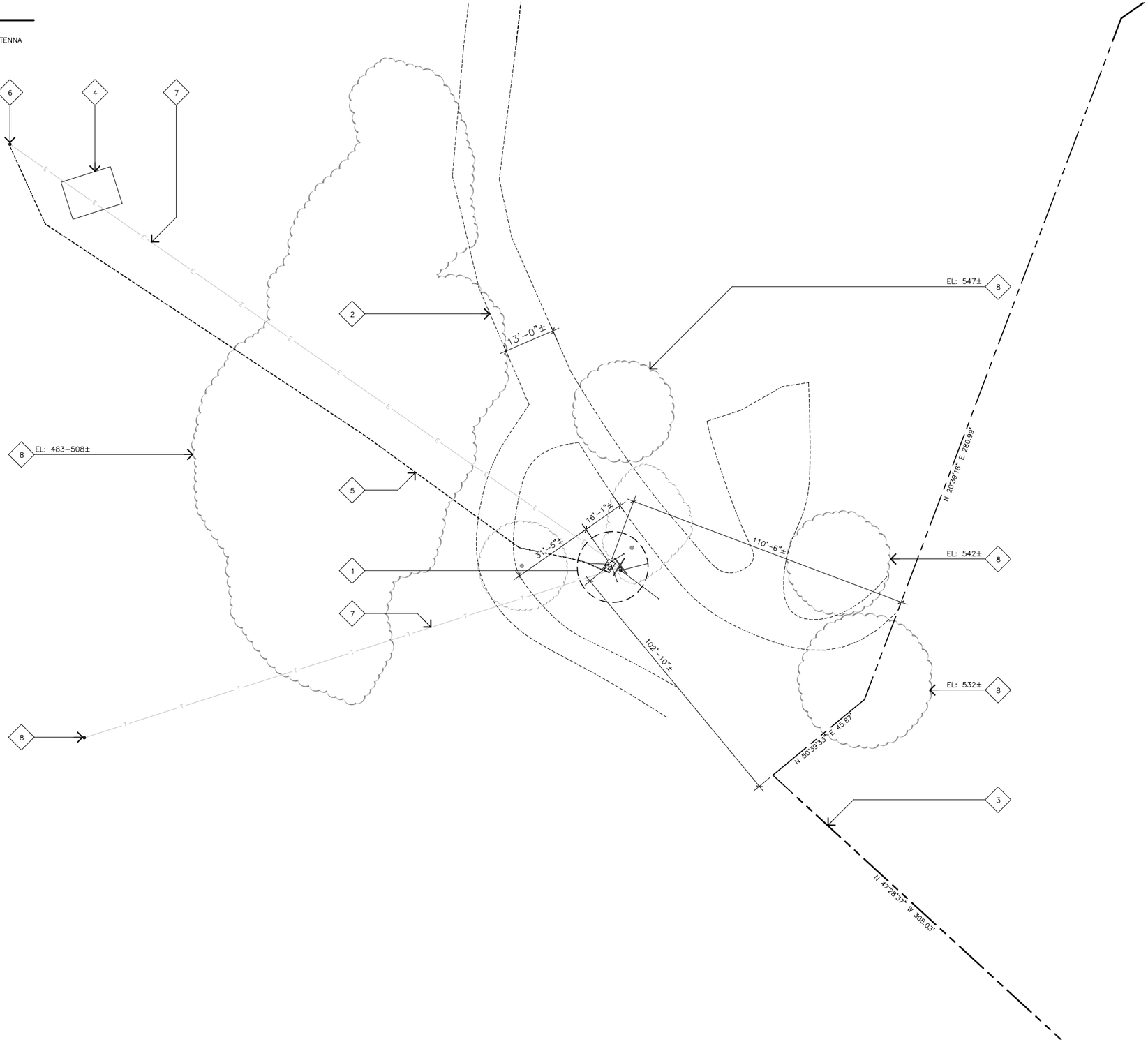
SITE PLAN

A-0

JRA JOB NUMBER: 152728

SITE PLAN KEYNOTES

1. (E) AT&T LEASE AREA WITH PROPOSED (N) MICROWAVE ANTENNA MODIFICATION; SEE SHEET A–1.1.
2. (E) ACCESS ROAD.
3. (E) PROPERTY LINE.
4. (E) TOP SHACK.
5. (E) CONDUIT ROUTE.
6. (E) UTILITY POLE.
7. (E) OVERHEAD UTILITY LINE.
8. (E) TREES.



N

SITE PLAN

SCALE: 1"=20'

0 10' 20'

1

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09/30/16	CORRECTIONS (P1–B5)

SHEET TITLE

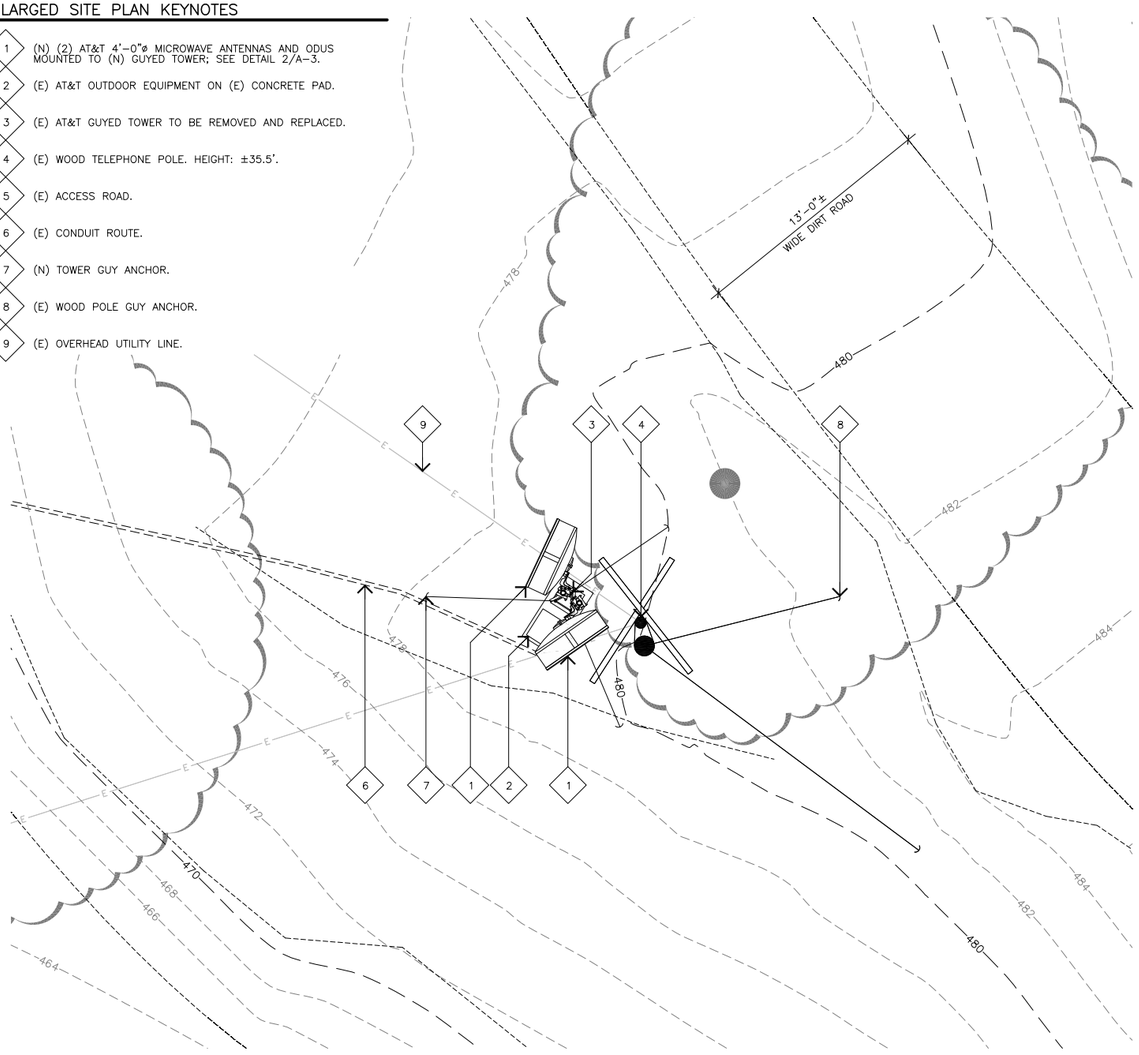
SITE PLAN

A-1

JRA JOB NUMBER: 152728

ENLARGED SITE PLAN KEYNOTES

1. (N) (2) AT&T 4'-0"ø MICROWAVE ANTENNAS AND ODUS MOUNTED TO (N) GUYED TOWER; SEE DETAIL 2/A-3.
2. (E) AT&T OUTDOOR EQUIPMENT ON (E) CONCRETE PAD.
3. (E) AT&T GUYED TOWER TO BE REMOVED AND REPLACED.
4. (E) WOOD TELEPHONE POLE. HEIGHT: ±35.5'.
5. (E) ACCESS ROAD.
6. (E) CONDUIT ROUTE.
7. (N) TOWER GUY ANCHOR.
8. (E) WOOD POLE GUY ANCHOR.
9. (E) OVERHEAD UTILITY LINE.



ENLARGED SITE PLAN GENERAL NOTES

A. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.

B. GROUND ALL (N) EQUIPMENT AND COAX PER DETAIL 3/A-3.

C. CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL COAX, RETS, AND ANTENNAS.

D. MASTEC TO PROVIDE ALL COAX, CONNECTORS, AND ANCILLARY EQUIPMENT (INCLUDING WEATHER STRIPPING, GROUND KITS, ETC.).

E. CONTRACTOR TO COLOR CODE ALL COAX. COLORED BANDS OF TAPE ON COAX IDENTIFY SECTOR, FREQUENCY, TECHNOLOGY, AND TRANSMIT GROUP AS FOLLOWS ON ALL COAX MODIFIED OR INSTALLED ONLY.

F. WHEN ANTENNA LINES ARE DIPLEXED, THE COLOR CODE OF THE HIGHEST FREQUENCY PREVAILS (I.E. UMTS DIPLEXED WITH TDMA SHOULD HAVE COLOR 4 BANDS).

G. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY MASTEC AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.

H. PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS, THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS. ALLOWABLE TOLERANCE: HORIZONTAL ALIGNMENT = ±5°; VERTICAL ALIGNMENT = ±1°.

I. ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAY, GROUNDS, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH OPTIMA INC. STANDARDS.

J. IN NO CASE SHALL THERE BE ANY MORE THAN TWO (2) 90° TURNS (OR EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN PULL BOXES OR SIMILAR FEATURES.

K. ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM ABOVE GROUND AND 36" MINIMUM BELOW GROUND.

L. CONDUIT SHALL BE 3"ø MINIMUM. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE IMC OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT OR UV STABILIZED PAINTED SCHEDULE 80 PVC.

M. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED 14 GA. GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT TO WALL AND COVER WITH 14 GA. GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY MASTEC CONSTRUCTION MANAGER.

N. VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR (E) EQUIPMENT AT FACILITIES.

O. MAXIMUM LENGTH OF 7/8" COAX CABLE SHALL BE 140'-0". MAXIMUM LENGTH OF 1-1/4" COAX CABLE SHALL BE 190'-0". MAXIMUM LENGTH OF 1-5/8" COAX CABLE SHALL BE 235'-0".

P. VERIFY MODEL NUMBERS OF ANTENNAS WITH MASTEC SERVICES.

Q. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE MASTEC PROJECT MANAGER.

R. GENERAL CONTRACTOR TO VERIFY ALL TORQUE TOLERANCES PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

N

ENLARGED SITE PLAN

SCALE: 1/4"=1'-0"

0 2' 4'

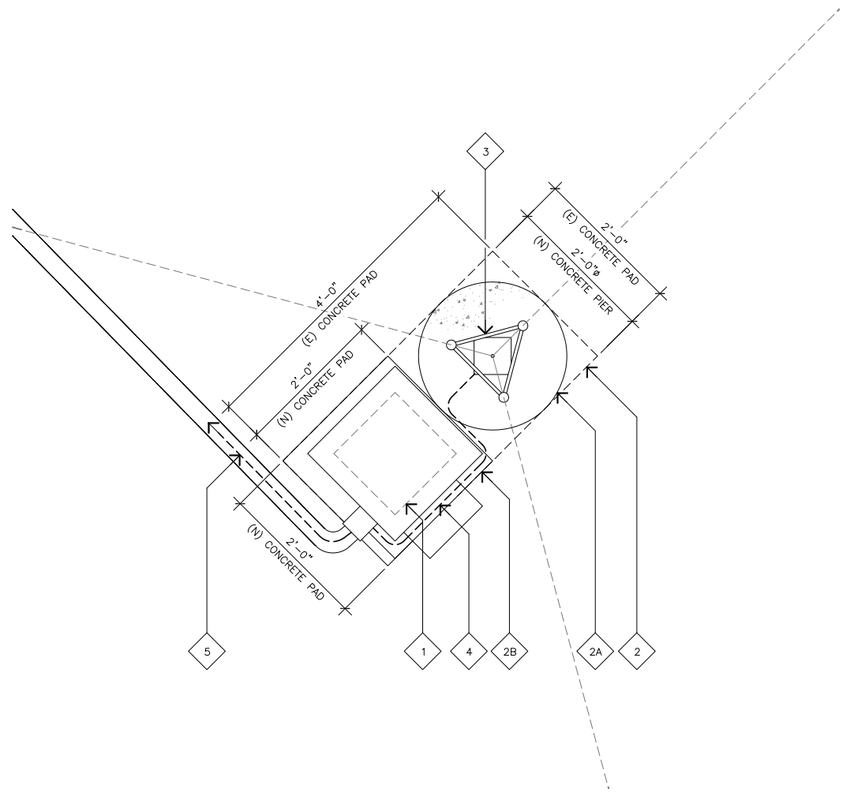
2

EQUIPMENT PLAN KEYNOTES

1. (N) AT&T MICROWAVE EQUIPMENT WITHIN (E) AT&T OUTDOOR EQUIPMENT CABINET.
2. (E) CONCRETE PAD TO BE REMOVED AND REPLACED.
2A. (N) CONCRETE FOUNDATION TO REPLACE (E); SEE STRUCTURAL SHEETS.
2B. (N) 2'X2' CONCRETE PAD FOR EQUIPMENT CABINET TO REPLACE (E); SEE SHEET A-3.1.
3. (N) AT&T 22'-0" TALL GUYED TOWER TO REPLACE (E); SEE STRUCTURAL SHEETS.
4. (N) (4) RUNS OF FIBER AND (4) RUNS OF COAX IN (N) 2"ø INNERDUCT.
5. (E) POWER AND TELCO CONDUITS.

EQUIPMENT PLAN GENERAL NOTE

(E) AT&T DC POWER TO BE VERIFIED ON SITE.



N

EQUIPMENT PLAN

SCALE: 3/4"=1'-0"

0 .5' 1' 2'

1

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SHEET TITLE

ENLARGED SITE AND EQUIPMENT PLAN

A-1.1

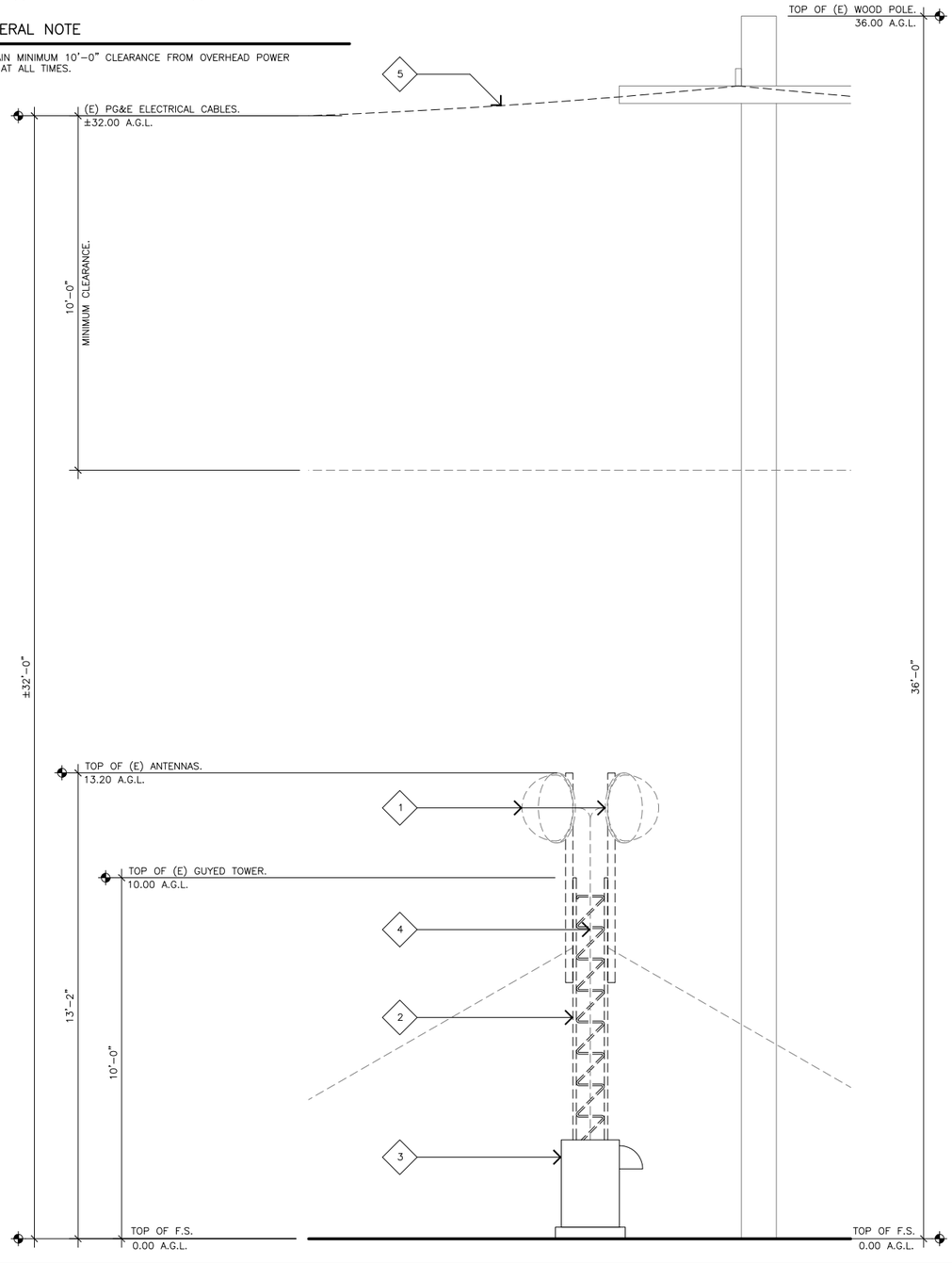
JRA JOB NUMBER: 152728

EXISTING ELEVATION KEYNOTES

1. (E) AT&T MICROWAVE ANTENNAS MOUNTED TO (E) GUYED TOWER TO BE REMOVED; VERIFY NO TRAFFIC IS BEING MIGRATED ON ANTENNAS PRIOR TO REMOVAL.
2. (E) GUYED TOWER TO BE REMOVED AND REPLACED.
3. (E) AT&T EQUIPMENT CABINET ON (E) CONCRETE PAD.
4. (E) AT&T COAX CABLE RUNS MOUNTED TO (E) GUYED TOWER.
5. (E) PG&E HIGH VOLTAGE ELECTRICAL CABLES MOUNTED TO (E) PG&E WOOD POLE; MAINTAIN 10'-0" CLEARANCE AT ALL TIMES.

GENERAL NOTE

MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OVERHEAD POWER LINES AT ALL TIMES.



EXISTING SOUTHWEST ELEVATION

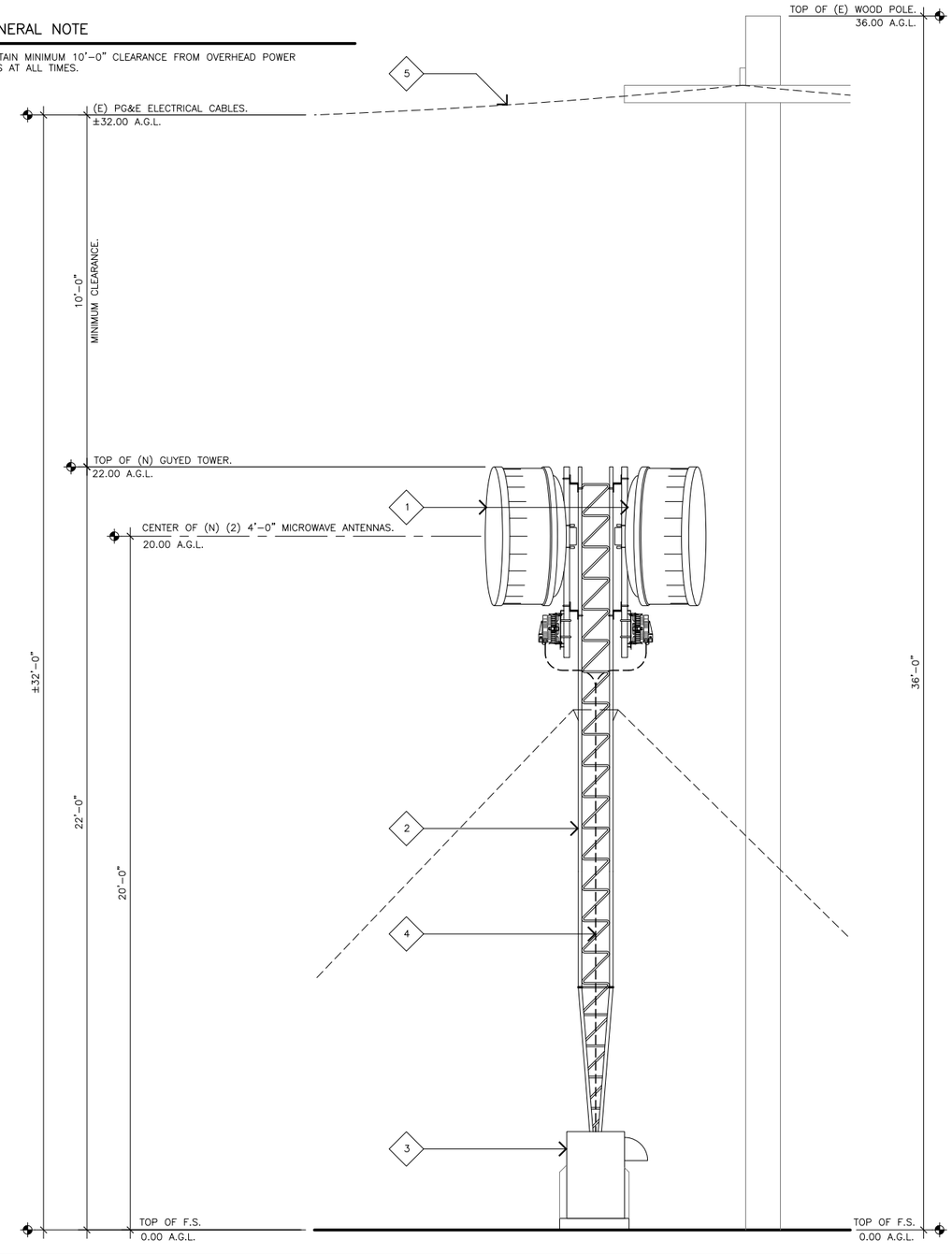
SCALE: 1/2"=1'-0" | 0 1' 2' | 2

PROPOSED ELEVATION KEYNOTES

1. (N) (2) AT&T 4'-0"ø MICROWAVE ANTENNAS AND ODU'S MOUNTED TO (N) GUYED TOWER.
2. (N) 22'-0" GUYED TOWER.
3. (E) AT&T EQUIPMENT CABINET ON (E) CONCRETE PAD.
4. (N) AT&T (4) RUNS OF FIBER AND (4) RUNS OF COAX IN (N) 2"ø INNERDUCT MOUNTED TO (E) GUYED TOWER.
5. (E) PG&E HIGH VOLTAGE ELECTRICAL CABLES MOUNTED TO (E) PG&E WOOD POLE; MAINTAIN 10'-0" CLEARANCE AT ALL TIMES.

GENERAL NOTE

MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OVERHEAD POWER LINES AT ALL TIMES.



PROPOSED SOUTHWEST ELEVATION

SCALE: 1/2"=1'-0" | 0 1' 2' | 1

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90% CDS	DATE
ANITA JEN	03/02/16
100% CDS	DATE
ANITA JEN	04/12/16
100% CDS WITH STRUCTURALS	DATE
MATHEW BRUNELLO	02/17/16
CONSTRUCTION	DATE
JEFF LIENERT	02/18/16
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
BIG SUR MW REPEATER

FA NUMBER
13232471

47000 HIGHWAY 1
BIG SUR, CALIFORNIA 93920

DRAWING DATES

02/10/16	95% CD REVIEW (P1-B1)
03/02/16	100% FINAL CDS (P1-B2)
04/12/16	STRUCTURALS (P1-B3)
09/12/16	PLANNING COMMENTS (P1-B4)
09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

EXISTING AND PROPOSED ELEVATIONS

A-2

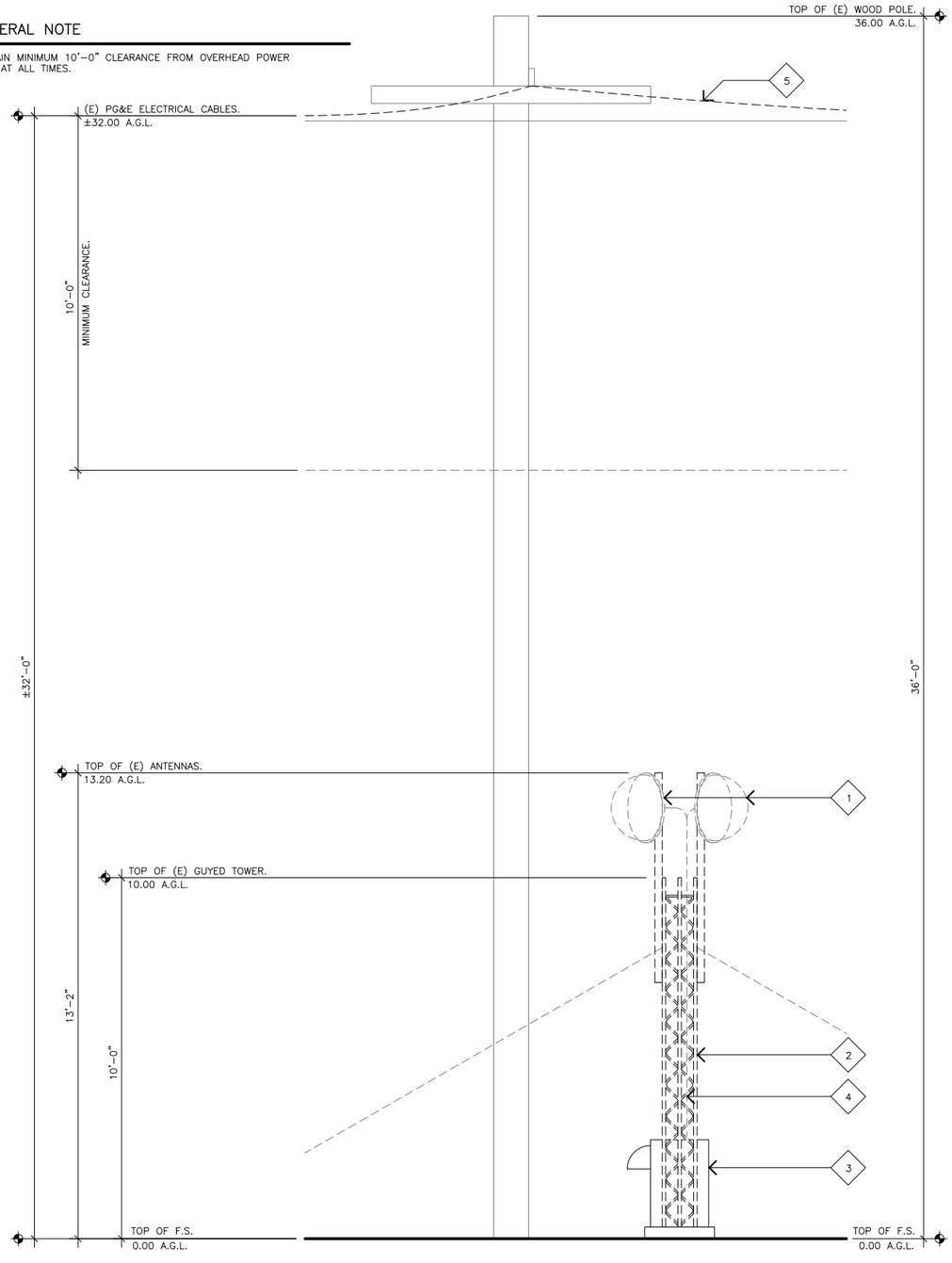
JRA JOB NUMBER: 152728

EXISTING ELEVATION KEYNOTES

1. (E) AT&T MICROWAVE ANTENNAS MOUNTED TO (E) GUYED TOWER TO BE REMOVED; VERIFY NO TRAFFIC IS BEING MIGRATED ON ANTENNAS PRIOR TO REMOVAL.
2. (E) GUYED TOWER TO BE REMOVED AND REPLACED.
3. (E) AT&T EQUIPMENT CABINET ON (E) CONCRETE PAD.
4. (E) AT&T COAX CABLE RUNS MOUNTED TO (E) GUYED TOWER.
5. (E) PG&E HIGH VOLTAGE ELECTRICAL CABLES MOUNTED TO (E) PG&E WOOD POLE; MAINTAIN 10'-0" CLEARANCE AT ALL TIMES.

GENERAL NOTE

MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OVERHEAD POWER LINES AT ALL TIMES.



EXISTING NORTHEAST ELEVATION

SCALE: 1/2"=1'-0" 0 1' 2'

2

PROPOSED ELEVATION KEYNOTES

1. (N) (2) AT&T 4'-0"ø MICROWAVE ANTENNAS AND ODU'S MOUNTED TO (N) GUYED TOWER.
2. (N) 22'-0" GUYED TOWER.
3. (E) AT&T EQUIPMENT CABINET ON (E) CONCRETE PAD.
4. (N) AT&T (4) RUNS OF FIBER AND (4) RUNS OF COAX IN (N) 2"ø INNERDUCT MOUNTED TO (E) GUYED TOWER.
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GENERAL NOTE

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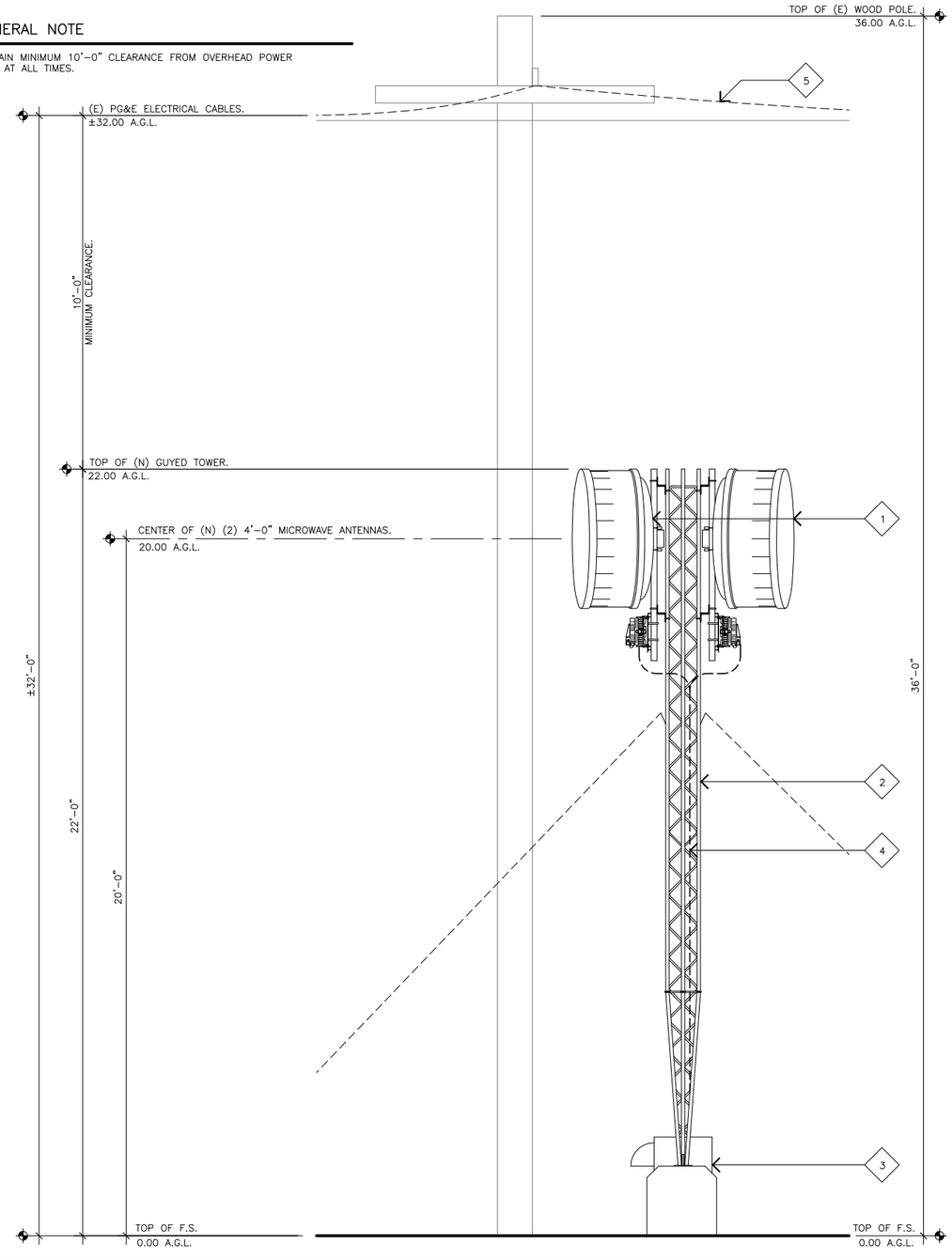

PROPOSED NORTHEAST ELEVATION

SCALE: 1/2"=1'-0" 0 1' 2'

1

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STAMP

LICENSED ARCHITECT JEFFREY L. ROME C-020876 EXP. FEB. 28,2017 STATE OF CALIFORNIA

PREPARED FOR

MasTec Network Solutions

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SHEET TITLE

EXISTING AND PROPOSED ELEVATIONS

A-2.1

JRA JOB NUMBER: 152728

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GENERAL NOTE

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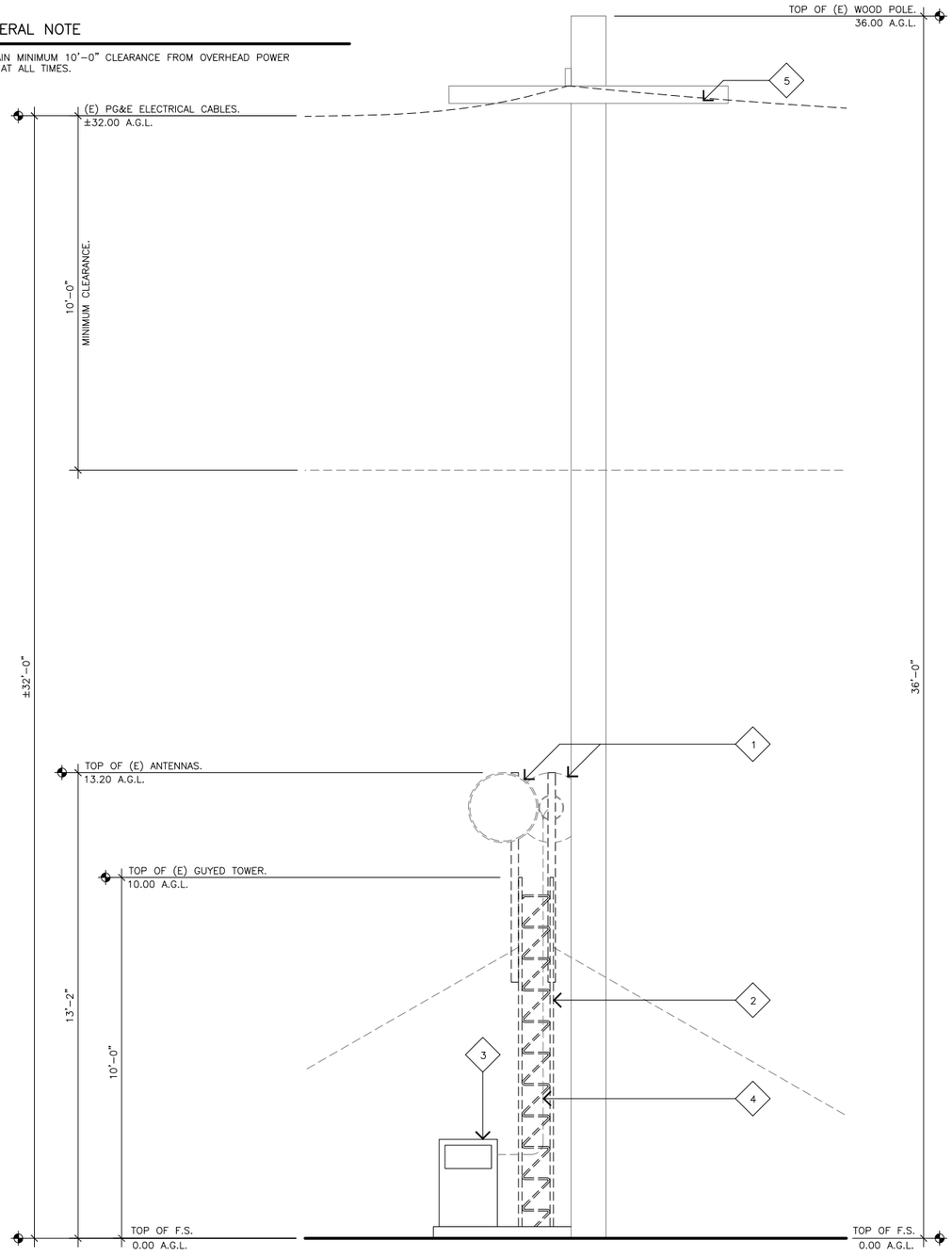

EXISTING SOUTHEAST ELEVATION

SCALE: 1/2"=1'-0" 0 1' 2'

2

PROPOSED ELEVATION KEYNOTES

1. (N) (2) AT&T 4'-0"ø MICROWAVE ANTENNAS AND ODU'S MOUNTED TO (N) GUYED TOWER.
2. (N) 22'-0" GUYED TOWER.
3. (E) AT&T EQUIPMENT CABINET ON (E) CONCRETE PAD.
4. (N) AT&T (4) RUNS OF FIBER AND (4) RUNS OF COAX IN (N) 2"ø INNERDUCT MOUNTED TO (E) GUYED TOWER.
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GENERAL NOTE

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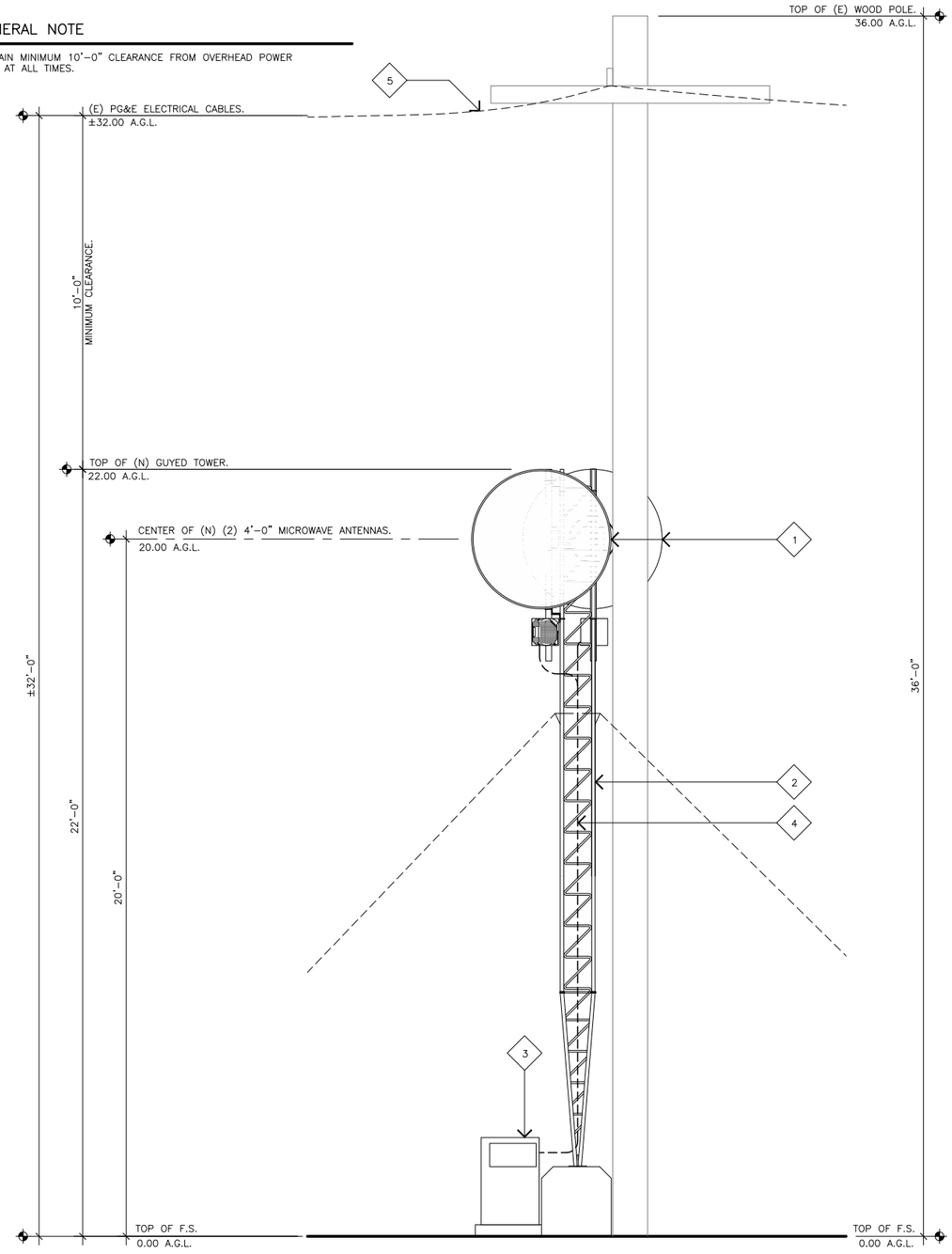

PROPOSED SOUTHEAST ELEVATION

SCALE: 1/2"=1'-0" 0 1' 2'

1

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09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

EXISTING AND PROPOSED ELEVATIONS

A-2.2

JRA JOB NUMBER: 152728

EXISTING ELEVATION KEYNOTES

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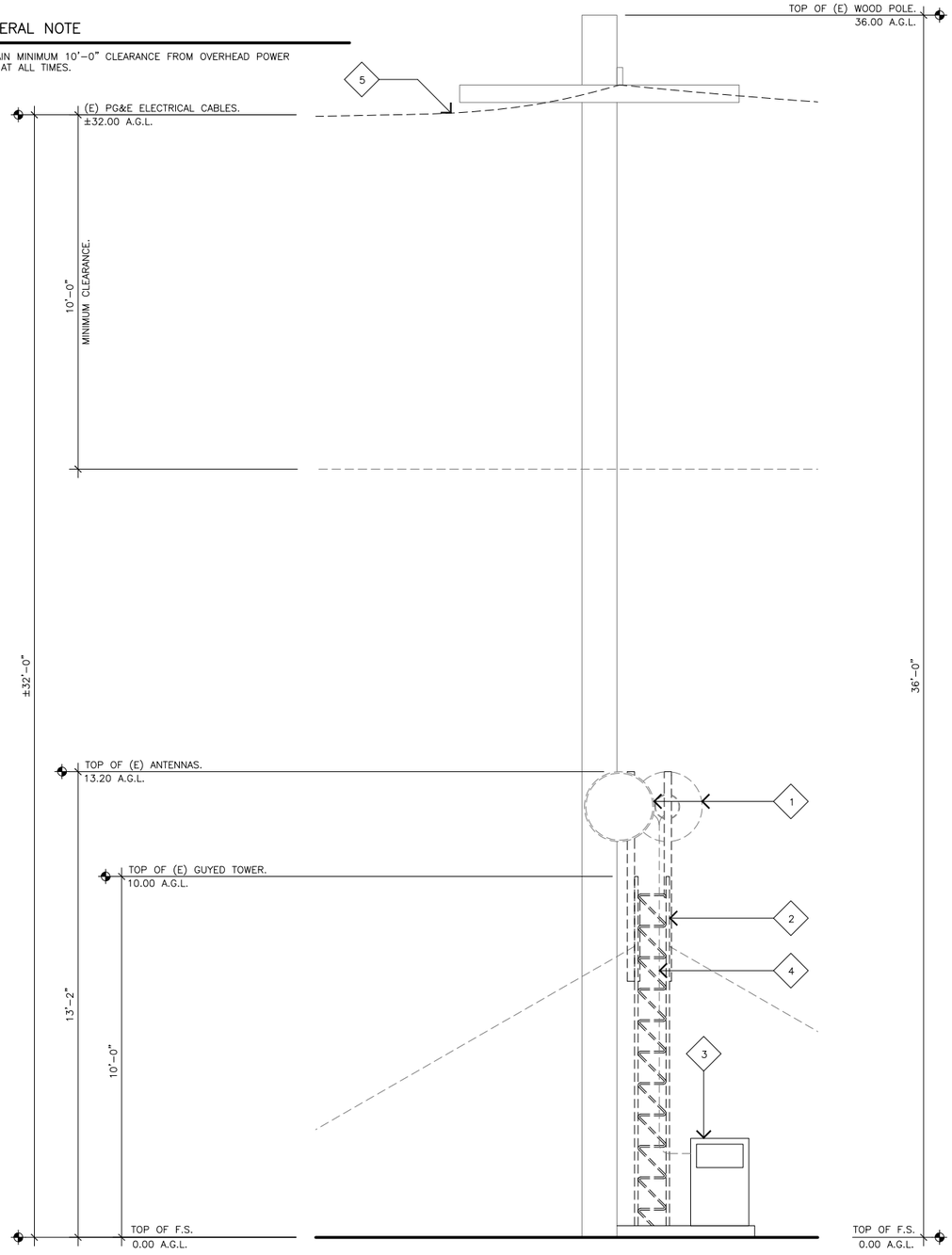

EXISTING NORTHWEST ELEVATION

SCALE: 1/2"=1'-0" | 0 1' 2' | 2

PROPOSED ELEVATION KEYNOTES

1. (N) (2) AT&T 4'-0"ø MICROWAVE ANTENNAS AND ODU'S MOUNTED TO (N) GUYED TOWER.
2. (N) 22'-0" GUYED TOWER.
3. (E) AT&T EQUIPMENT CABINET ON (E) CONCRETE PAD.
4. (N) AT&T (4) RUNS OF FIBER AND (4) RUNS OF COAX IN (N) 2"ø INNERDUCT MOUNTED TO (E) GUYED TOWER.
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GENERAL NOTE

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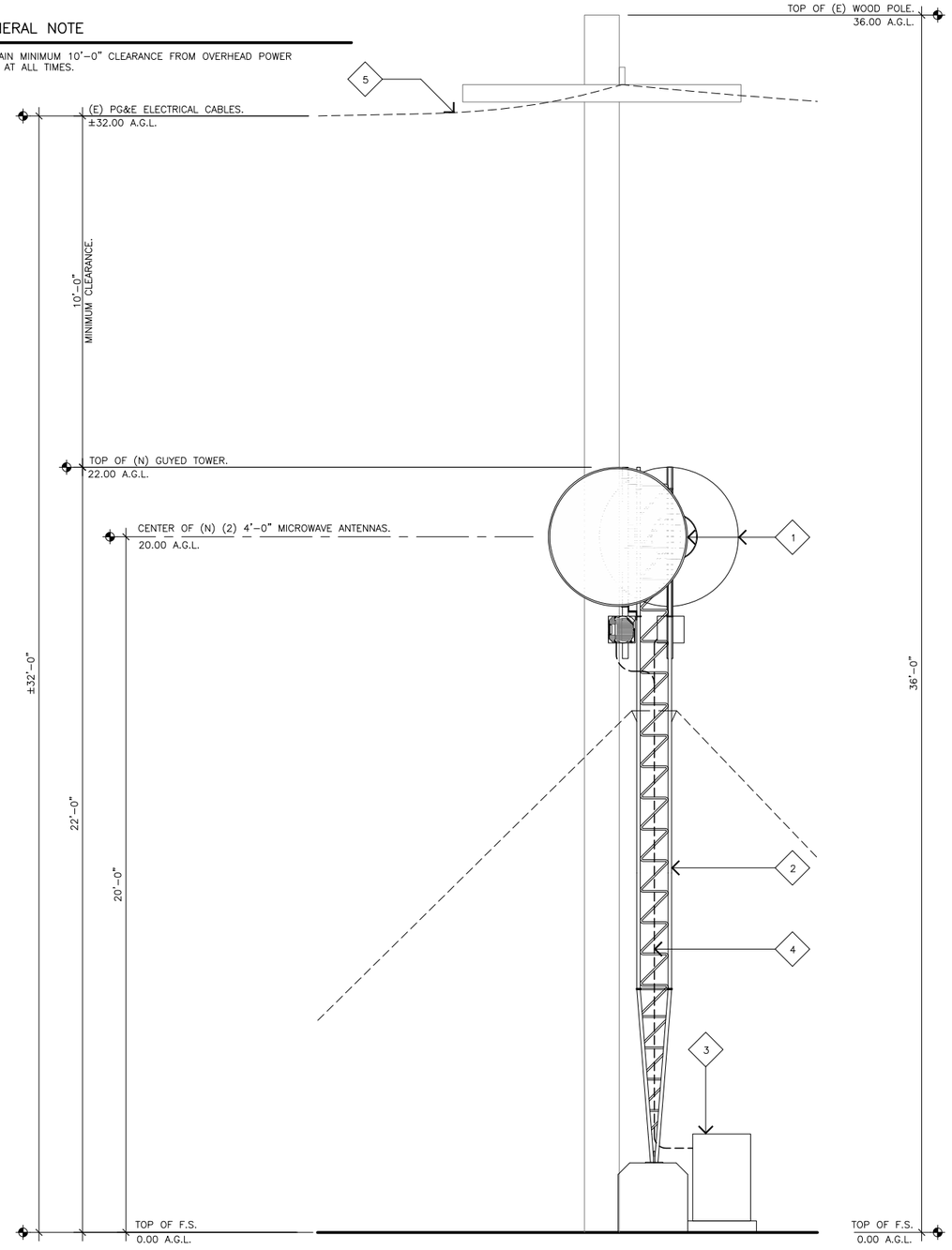

PROPOSED NORTHWEST ELEVATION

SCALE: 1/2"=1'-0" | 0 1' 2' | 1

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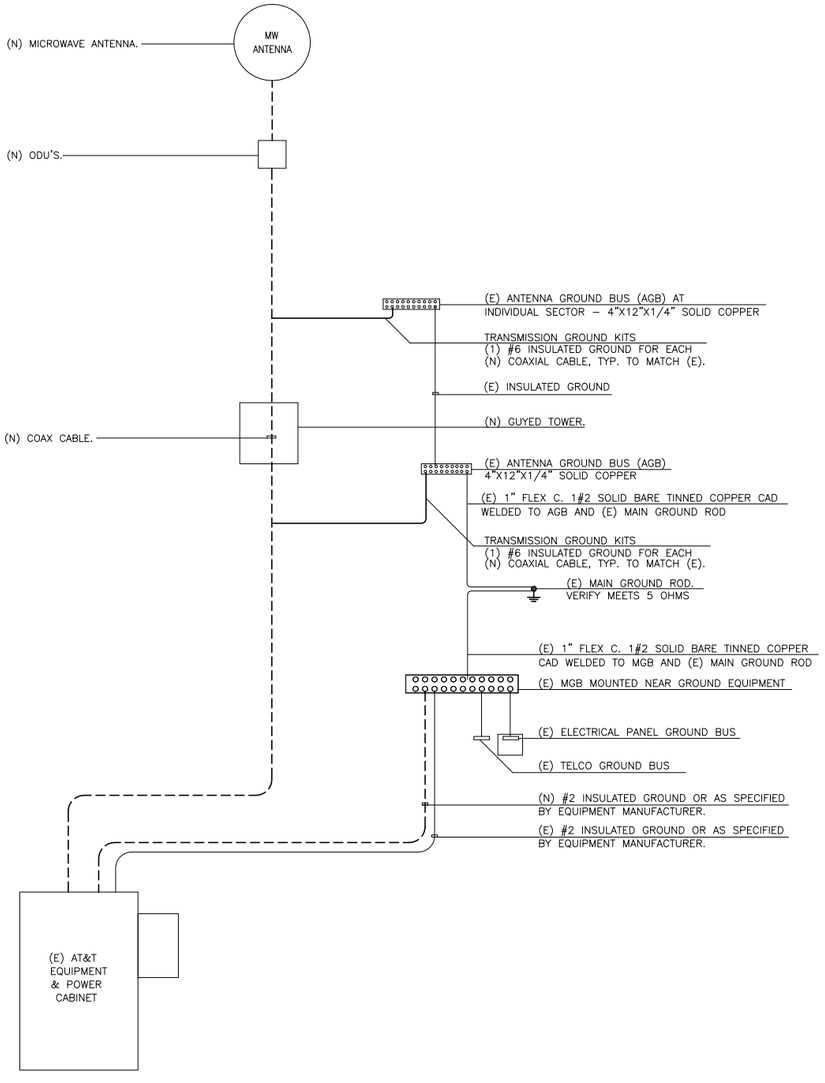
SHEET TITLE

EXISTING AND PROPOSED ELEVATIONS

A-2.3

JRA JOB NUMBER: 152728

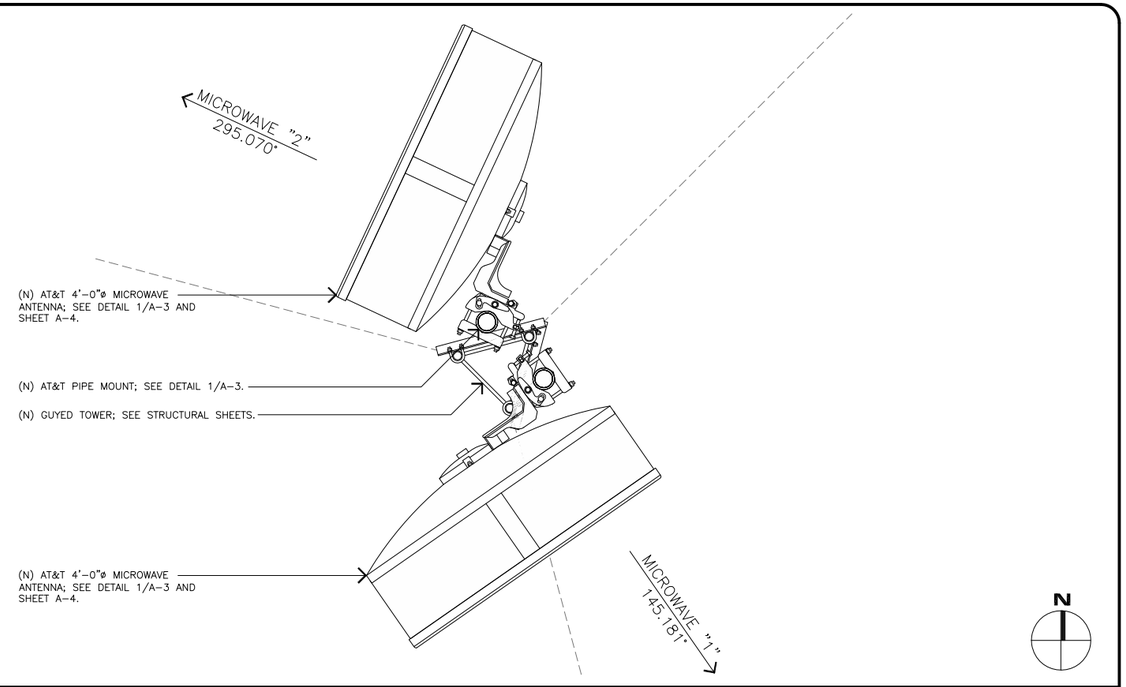


GENERAL NOTES:

1. SPLICE GROUND CONNECTIONS.
2. FOLLOW COAXIAL CABLE MANUFACTURES RECOMMENDATIONS (TYPICAL)
3. ALL INSULATED GROUND WIRES TO BE STRANDED, AWG WIRE UNLESS NOTED OTHERWISE.
4. THIS IS TYPICAL FOR ONE SECTOR OF ANTENNAS. SEE PLANS FOR NUMBER OF SECTORS.
5. NUMBER OF COAX IS DIAGRAMATIC.
6. EXISTING DIPLEXER'S AND EXISTING TMA'S NOT SHOWN FOR CLARITY.

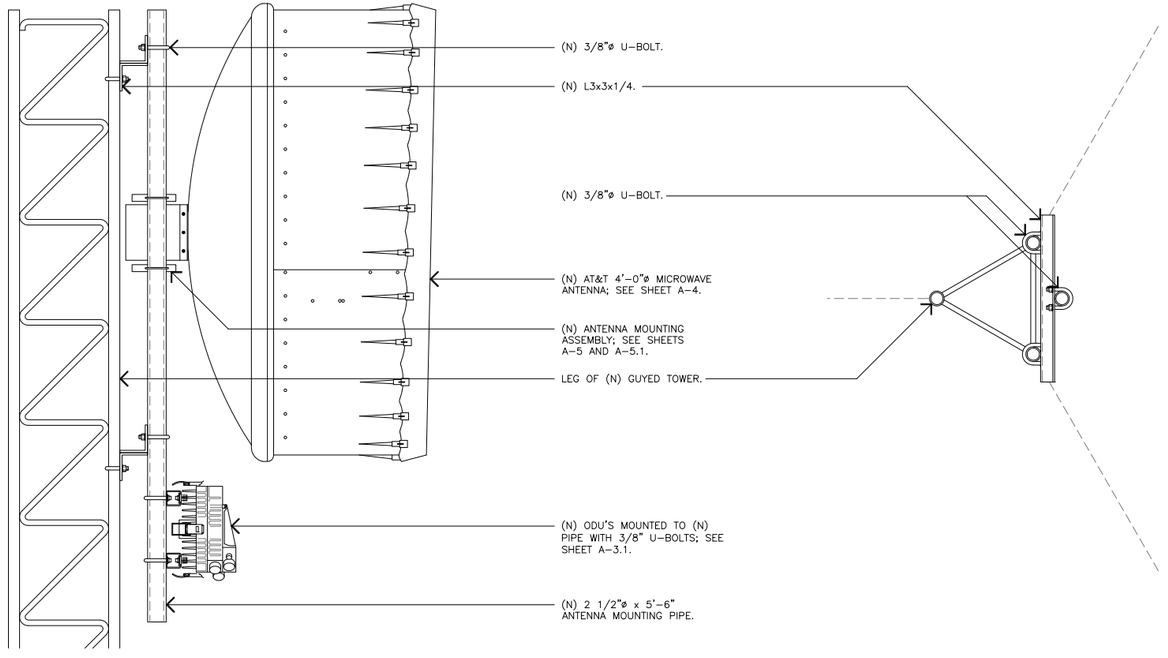
COAX & GROUNDING SYSTEM SCHEMATIC

SCALE: NONE | 3



ANTENNA PLAN

SCALE: NONE | 2



ELEVATION VIEW

PLAN VIEW
ANTENNAS NOT SHOWN FOR CLARITY

MICROWAVE ANTENNA DETAIL

SCALE: NONE | 1

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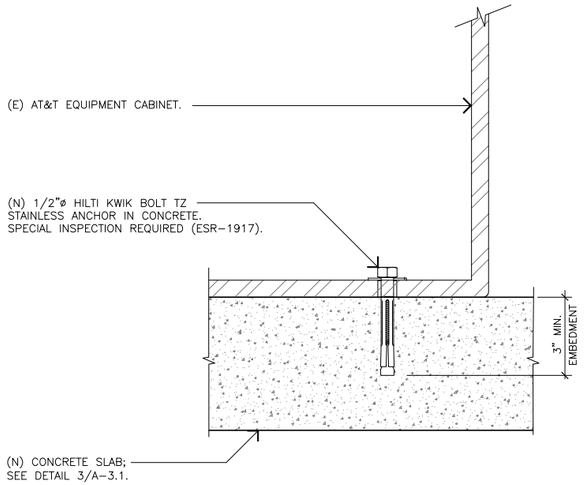
09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

ANTENNA DETAILS

A-3

JRA JOB NUMBER: 152728



EQUIPMENT ANCHORAGE

SCALE: NONE

6

NOT USED

SCALE: NONE

5

STANDARD CONCRETE NOTES:

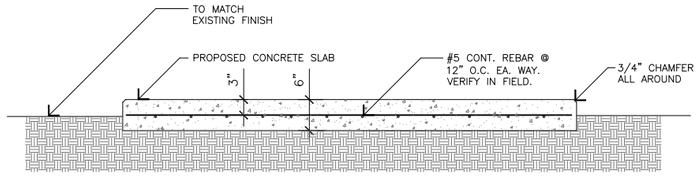
1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-89, ACI 318-95 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
3. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.

   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF.....1-1/2 IN.

   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALL .....3/4 IN.
   BEAMS AND COLUMNS.....1-1/2 IN.

4. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
5. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
6. USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICC & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.



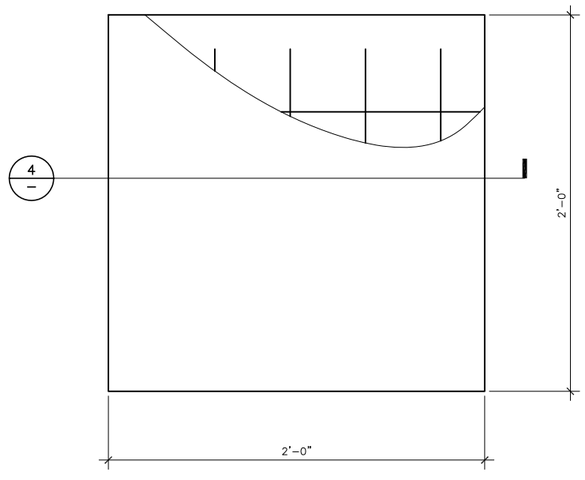
CONCRETE PAD SECTION

SCALE: NONE

4

NOTES:

1. SLAB TO BE LEVEL ±1/4" AND FLOAT SURFACE.
2. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE SITE CONTRACTOR.
3. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3,000 PSI WITH SPECIAL INSPECTION REQUIRED.
4. VERIFY (E) SOIL COMPACTION. PROVIDE NON-ORGANIC FILL AS REQUIRED TO BRING SITE UP TO 90% COMPACTION.
5. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".



CONCRETE PAD PLAN

SCALE: NONE

3

9500 MPR Coupler Mechanical Information for MPT-HC/MPRe

6, 11, 18, 23 and 38 GHz Coupler's

Coupler MPT-HC/MPRe Dimensions (stand-alone Coupler, without antenna or mounting hardware):
- **Coupler: 9 ¼ x 13 ½ x 2 ¼ in**

Coupler MPT-HC/MPRe Weight (stand-alone Coupler):
- **Coupler: 9 lbs**

ODU COUPLER

SCALE: NONE

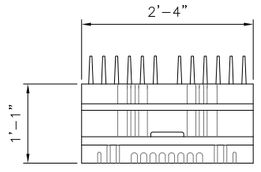
2

9500 MPR MPT-HC ODU

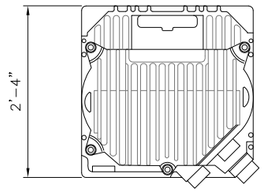
COLOR: WHITE

DIMENSIONS: 9.25" TALL x 10.25" WIDE x 5.75" DEEP

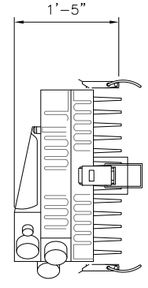
WEIGHT: ±13 lbs (STAND ALONE ODU)



TOP VIEW



FRONT VIEW



SIDE VIEW

ODU DETAIL

SCALE: NONE

1

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SHEET TITLE

DETAILS

A-3.1

JRA JOB NUMBER: 152728

Product Specifications

COMMSCOPE®

POWERED BY ANDREW.

UHX4-107-P3A/B

1.2 m | 4 ft Ultra High Performance Parabolic Shielded Antenna

General Specifications

Antenna Type	UHX - Ultra High Performance Parabolic Shielded Antenna
Diameter, nominal	1.2 m | 4 ft
Packing	Standard pack
Radome Color	White
Radome Material	Enhanced
Reflector Construction	One-piece reflector
Antenna Input	CPR90G
Antenna Color	Gray
Antenna Type	UHX - Ultra High Performance Parabolic Shielded Antenna
Diameter, nominal	1.2 m | 4 ft
Flash Included	Yes

Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±20°
Mounting Pipe Diameter	115 mm | 4.5 in
Net Weight	69 kg | 152 lb
Side Struts, Included	1 inboard
Side Struts, Optional	1 inboard
Wind Velocity Operational	110 km/h | 68 mph
Wind Velocity Survival Rating	200 km/h | 124 mph

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max	-130 °
Axial Force (FA)	3158 N | 710 lbf
Side Force (FS)	1546 N | 348 lbf
Twisting Moment (MT)	1072 N•m
Weight with 1/2 in (12 mm) Radial Ice	356 kg | 784 lb
Zcg with 1/2 in (12 mm) Radial Ice	524 mm | 21 in
Zcg without Ice	335 mm | 13 in

ANTENNA SPECIFICATIONS | SCALE: NONE | 2

LMR-400

Flexible Communications Cable

Ideal for...

- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, Mobile Antennas, 802.11, WLAN) requiring an easily routed, low loss RF cable

• **Flexible:** With a 1-inch minimum bend radius, LMR-400 cable can be easily routed into and through tight spaces without kinking. The LMR bonded-tape outer conductor provides superior flexibility and ease of bending compared to corrugated copper or smooth wall copper hard-line cables.
• **Low Loss:** LMR-400 has the lowest loss of any RG8/RG213 'type' cable. This is achieved through the use of a high velocity gas-injected closed cell foam dielectric and bonded aluminum tape outer conductor.
• **Weatherproof:** The UV protected black polyethylene jacket makes the cable rugged and resistant to the full range of outdoor environments. The DB version of the cable includes a water blocking material within the braid to protect the cable from moisture ingress and eliminate any potential for corrosion in harsh environments or should the jacket become damaged. Various jacket materials are available to address other indoor and outdoor requirements.
• **RF Shielding:** The bonded aluminum tape outer conductor is overlapped to provide 100% coverage, resulting in >90 dB RF shielding (>180 dB crosstalk) and excellent interference immunity (ingress and egress).
• **Phase Stability:** The intimately bonded structure and foam dielectric of LMR cables provide excellent phase stability over temperature and with bending. The high velocity dielectric results in superior phase stability as compared with solid and air-spaced dielectric cables.
•**Connectors and Assemblies:** Times Microwave provides *FlexTech™* jumper cable assemblies fabricated with LMR-400-DB watertight cable and a variety of connector interface combinations (ref: FlexTech pages). Custom assemblies with phase matching, insertion loss matching, and other special electrical or marking requirements can also be provided. A full range of connectors, including 'EZ' install (non-solder) types, is available for

Part Description

Part Number	Designation	Jacket	Stock Code
LMR-400	Standard outdoor cable	Polyethylene	54001
LMR-400-DB	Watertight cable	Polyethylene	54091
LMR-400-FR	CMR/MPR (PCC-FT4)	Non-Halogen	54030
* LMR-400-LLPL	CMP/MPP (PCC-FT6)	Plenum	54070
LMR-400-PVC	Indoor cable (CATVR)	PVC	54073
LMR-400-UltraFlex	UltraFlex cable	TPE	54040
LMR-400-FR-W	CMR/MPR (PCC FT4)	White Non-Halogen	54188
LMR-400-75	75 Ohm outdoor cable	Polyethylene	54147

* See LMR in-building communications catalog on web site for Plenum connectors.

TIMES MICROWAVE SYSTEMS
A Smiths Group plc company
358 Hall Ave., Wallingford, CT, 06492-5039 U.S.A.
Phone: 203-949-8400 Fax: 203-949-8423

LMR-400 cable as shown on the next page.
• **LMR-LLPL Low Loss Plenum:** Refer to LMR In-Building Communications catalog on web site for details.

Mechanical Specifications

Minimum bend radius	1.0 in	25.4 mm
Bending moment	0.5 ft lb	0.68 N-m
Weight	0.068 lb/ft	0.10 kG/m
Tensile strength	160 lb	72.6 kG
Flat plate crush	40 lb/in	0.71 g/mm

Construction Specifications

Part Designation	Material	Inches	mm
Inner conductor	Solid BCCAl	0.108	2.74
Dielectric	Foam polyethylene	0.285	7.24
Outer conductor	Aluminum tape	0.291	7.39
Overall braid	Tinned copper	0.320	8.13
Standard jacket	Black polyethylene	0.405	10.29

Environmental Specifications

	°F	°C
Installation temperature range	-40/+185	-40/+85
Storage temperature range	-94/+185	-70/+85
Operating temperature range	-40/+185	-40/+85

Electrical Specifications

Cutoff frequency	16.2 GHz*	
Velocity of propagation	85%	
Voltage withstand	2,500 VDC	
Peak power	16 kW	
DC resistance		
Inner conductor, ohms	1.39/1,000'	4.56/km
Outer conductor, ohms	1.65/1,000'	5.41/km
Jacket spark	8,000 VRMS	
Impedance	50 ohms	
Capacitance	23.9 pF/ft	78.40 pF/m
Inductance	0.060 uH/ft	0.20 uH/m
Shielding effectiveness	>90 dB	
Phase stability	<10 ppm/°C	

*Consult factory for applications over 6 GHz.

Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100 m	Avg. Power kW
30 MHz	0.7	2.2	3.3
50 MHz	0.9	2.9	2.6
150 MHz	1.5	5.0	1.5
220 MHz	1.9	6.1	1.2
450 MHz	2.7	8.9	0.83
900 MHz	3.9	12.8	0.58
1500 MHz	5.1	16.8	0.44
1800 MHz	5.7	18.6	0.40
2000 MHz	6.0	19.6	0.37
2500 MHz	6.8	22.2	0.33
5800 MHz	10.8	35.5	0.21

Add 15% to tabulated attenuation for LMR-UltraFlex
Attenuation (db/100 ft) = (0.12229) • $\sqrt{FMHz}$ + (0.00026) • FMHz
(db/100 m) = (0.40123) • $\sqrt{FMHz}$ + (0.00085) • FMHz
(interactive calculator available at http://www.timesmicrowave.com)
Attenuation: VSWR=1.0 ; Ambient = +25°C (77°F)
Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

LMR-400 COAX SPECIFICATIONS | SCALE: NONE | 1

Jeffrey Rome | ASSOCIATES
architecture | telecommunications
131 Innovation Drive; Suite 100
Irvine, California 92617
tel 949.760.3929 | fax 949.760.3931

STAMP

LICENSED ARCHITECT JEFFREY L. ROME C-020876 EXPIRES FEB. 28, 2017 STATE OF CALIFORNIA

PREPARED FOR

MasTec Network Solutions

APPROVALS

ANITA JEN	02/10/16
90% CDS	DATE
ANITA JEN	03/02/16
100% CDS	DATE
ANITA JEN	04/12/16
100% CDS WITH STRUCTURALS	DATE
MATHEW BRUNELLO	02/17/16
CONSTRUCTION	DATE
JEFF LIENERT	02/18/16
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
BIG SUR MW REPEATER

FA NUMBER
13232471

47000 HIGHWAY 1
BIG SUR, CALIFORNIA 93920

DRAWING DATES

02/10/16	95% CD REVIEW (P1-B1)
03/02/16	100% FINAL CDS (P1-B2)
04/12/16	STRUCTURALS (P1-B3)
09/12/16	PLANNING COMMENTS (P1-B4)
09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

SPECIFICATIONS

A-4

JRA JOB NUMBER: 152728

ACCESS ROAD | SCALE: NONE | 6

EXISTING TELEPHONE POLE | SCALE: NONE | 4

EXISTING GUYED TOWER | SCALE: NONE | 2

OVERALL SITE | SCALE: NONE | 5

EXISTING FOUNDATION | SCALE: NONE | 3

EXISTING EQUIPMENT CABINET | SCALE: NONE | 1

jra

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STAMP

LICENSED ARCHITECT
JEFFREY L. ROME
C-020876
EXP. FEB. 28, 2017
STATE OF CALIFORNIA

PREPARED FOR

MasTec Network Solutions

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09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

SPECIFICATIONS

A-4.1

JRA JOB NUMBER: 152728

Installation Instructions

COMMSCOPE® on the go

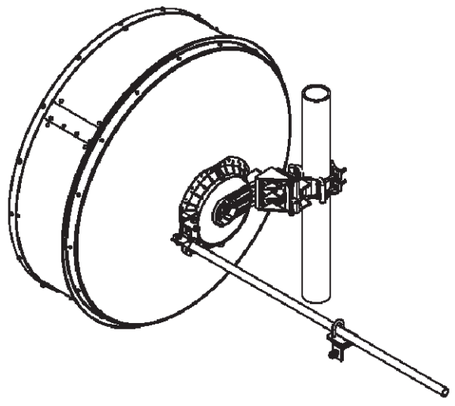
Title Line 1

Title Line 2

Bulletin 7628916
Version 03 Status RE Rev D
Model Version 01 Status RE Rev B

This document is for the following:

VHLP(X)4-* 1.2m ANTENNA**



SAFETY

ANTENNA INSTALLATION, MAINTENANCE OR REMOVAL MUST BE PERFORMED BY QUALIFIED EXPERIENCED INSTALLER.

It is essential that all appropriate national and local safety regulations be strictly observed to ensure the safety of personnel and to prevent damage to the equipment. CommScope cannot accept responsibility for accidents resulting from non-compliance with such regulations.

The Antenna is designed to attach to a vertical tower pipe of diameter 115mm
The mount provides adjustment ranges of ±15° fine elevation and ±180°
(±15 ° Fine) azimuth.

Always read the entire manual before commencing installation.

WARNING

Do not use any installation components (screws, nuts, etc) other than with the equipment or recommended by the supplier

Andrew Solutions

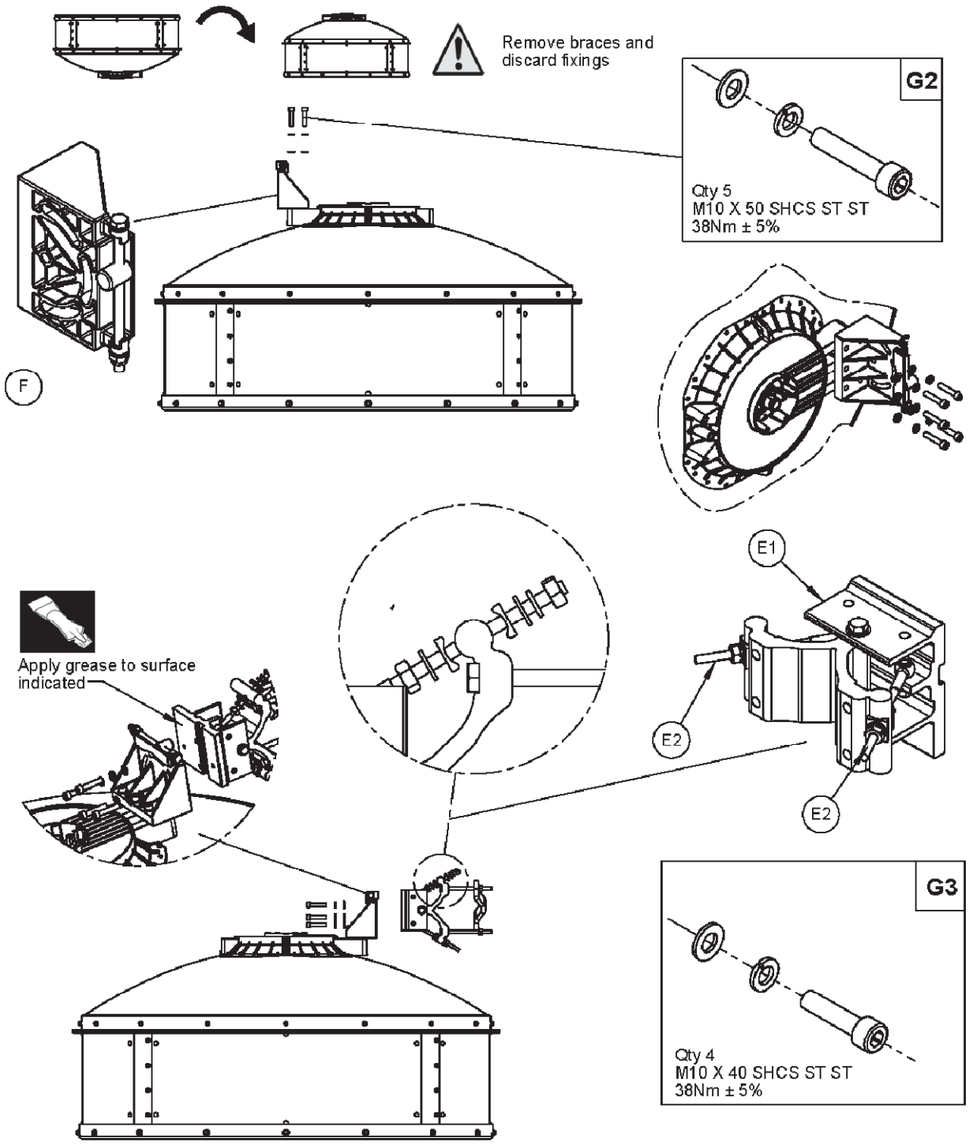
Customer Service 24 hours
U.S.A., Canada, Mexico: 1-800-255-1479
or 1-866-235-5732
U.K.: 0800 250055
Other Europe: +44 592 782 612

www.commscope.com\andrew
Visit our Web site at www.commscope.com\andrew or contact your local Andrew Solutions representative for more information.

CE

INSTALLATION INSTRUCTIONS — SECTION 8 — 7628916

MOUNT ATTACHMENT AND ALIGNMENT



jra
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Irvine, California 92617
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LICENSED ARCHITECT JEFFREY L. ROME C-020876 EXP. FEB. 28,2017 STATE OF CALIFORNIA

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MasTec Network Solutions

APPROVALS

ANITA JEN	02/10/16
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MATHEW BRUNELLO	02/17/16
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PROJECT NAME
MICROWAVE UPGRADE

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BIG SUR, CALIFORNIA 93920

DRAWING DATES

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09/30/16	CORRECTIONS (P1–B5)

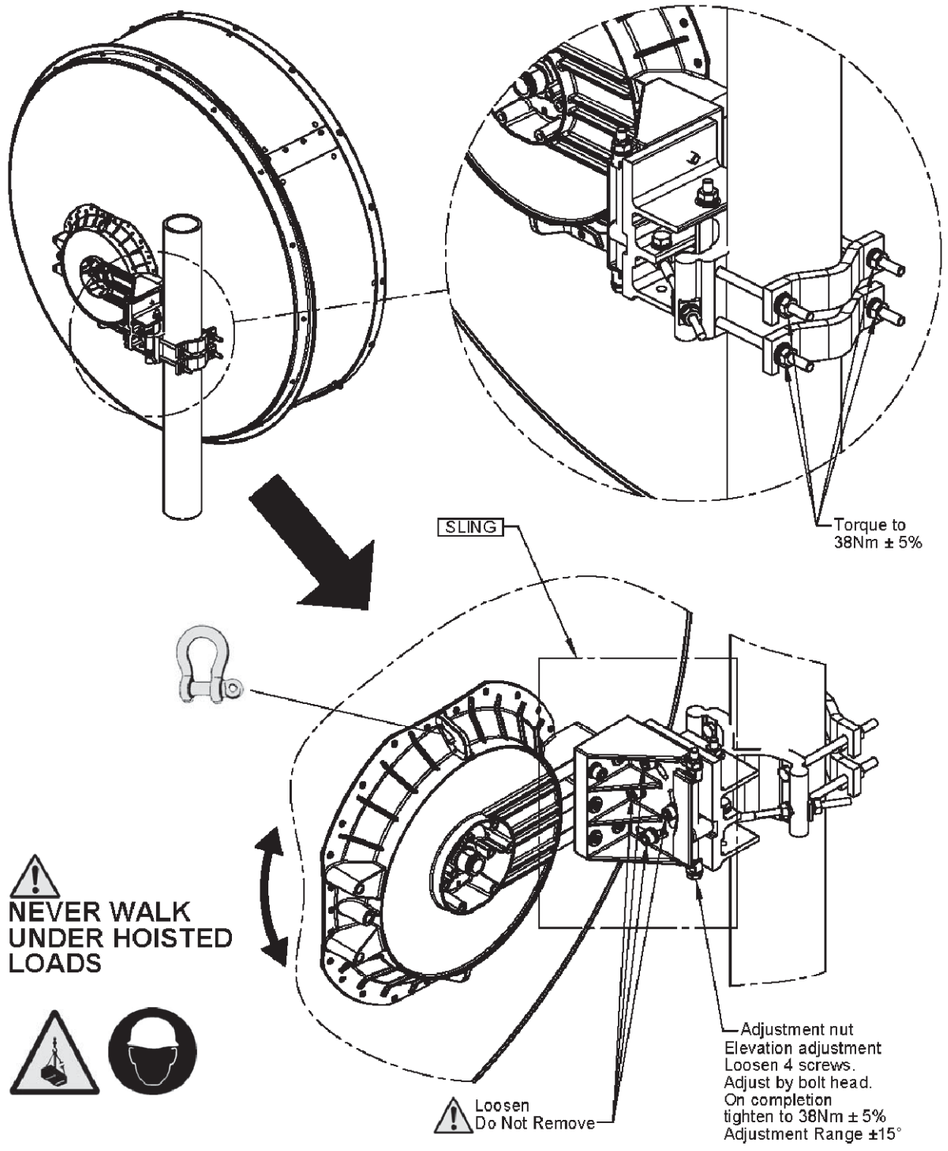
SHEET TITLE

ANTENNA MOUNTING DETAILS

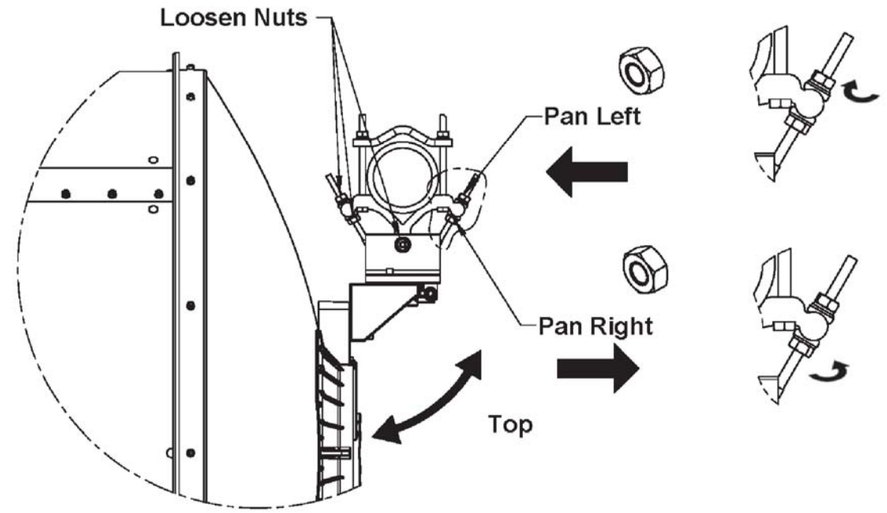
A-5

JRA JOB NUMBER: 152728

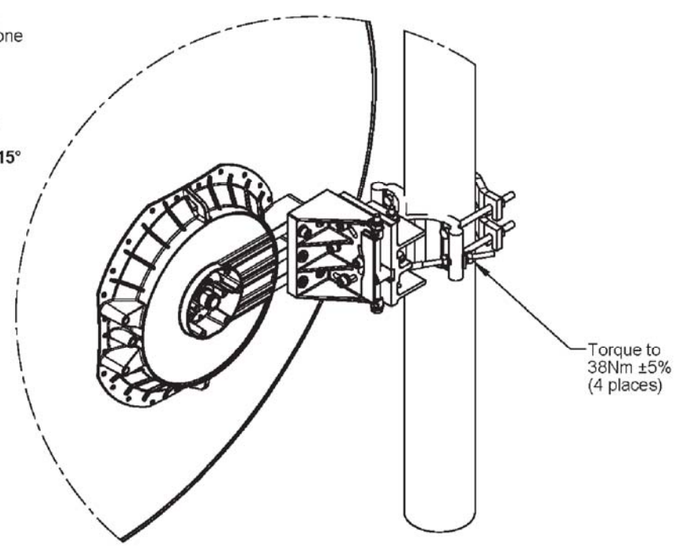
INSTALLATION INSTRUCTIONS	SECTION 8 MOUNT ATTACHMENT AND ALIGNMENT	7628916



INSTALLATION INSTRUCTIONS	SECTION 8 MOUNT ATTACHMENT AND ALIGNMENT	7628916



Azimuth adjustment
Loosen link screw on one side giving room for adjustment.
Adjust with remaining link screw.
On completion tighten to 38Nm ± 5%
Adjustment Range ±15°



ANTENNA MOUNTING DETAILS

SCALE:	1
NONE	

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LICENSED ARCHITECT JEFFREY L. ROME C-020876 EXP. FEB. 28,2017 STATE OF CALIFORNIA

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APPROVALS

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09/30/16	CORRECTIONS (P1–B5)

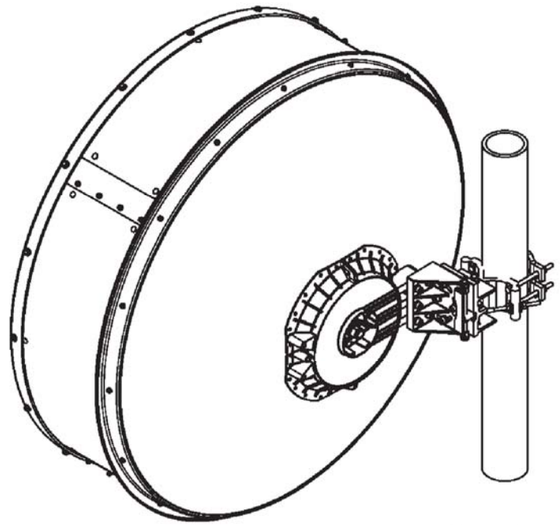
SHEET TITLE

ANTENNA MOUNTING DETAILS

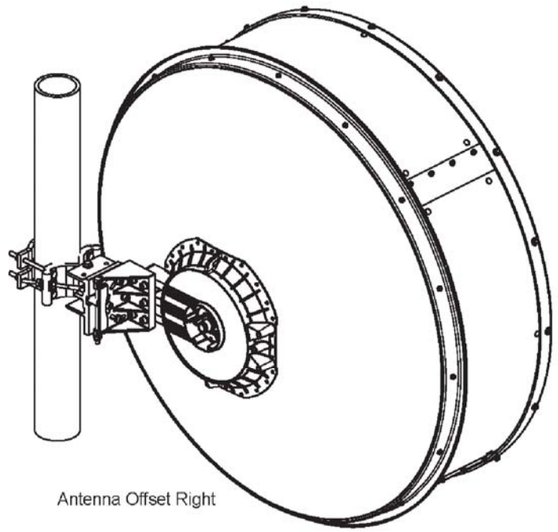
A-5.1

JRA JOB NUMBER: 152728

INSTALLATION INSTRUCTIONS	SECTION 8 MOUNT ATTACHMENT AND ALIGNMENT	7628916

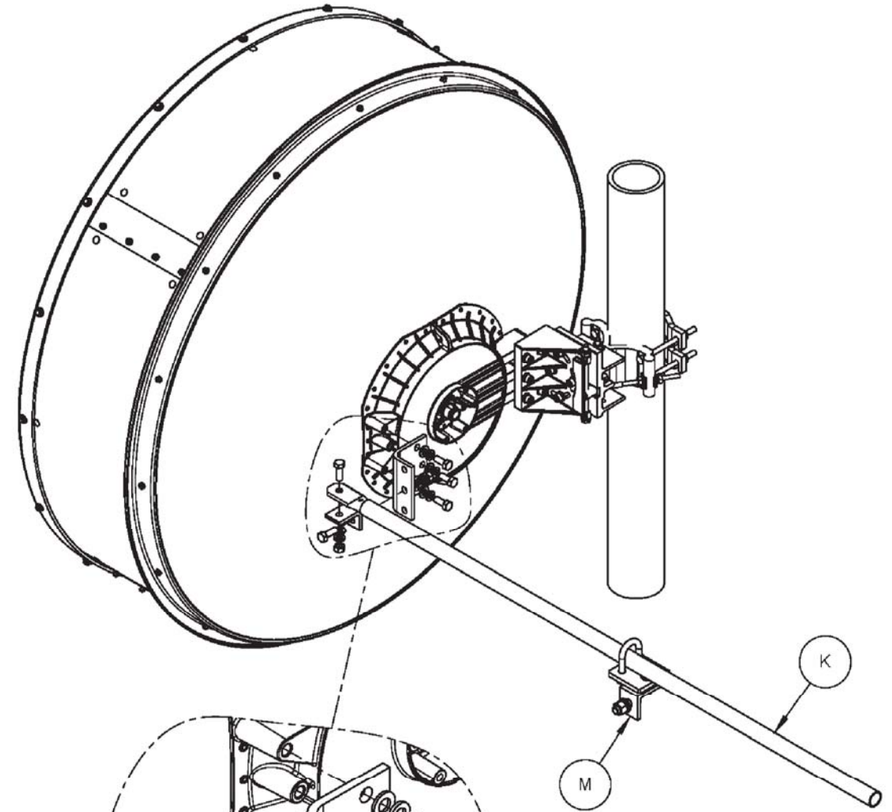


Antenna Offset Left



Antenna Offset Right

INSTALLATION INSTRUCTIONS	SECTION 8 MOUNT ATTACHMENT AND ALIGNMENT	7628916



Strut to be loosely fitted until alignment is complete then tighten all fixings to torque specified

Strut to be attached to center hole.
Tighten all hardware to a
torque of 38Nm ±5%

ANTENNA MOUNTING DETAILS

SCALE: NONE

1

jra

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LICENSED ARCHITECT JEFFREY L. ROME C-020876 EXPIRES FEB. 28, 2017 STATE OF CALIFORNIA

PREPARED FOR

MasTec Network Solutions

APPROVALS

ANITA JEN 90% CDS	02/10/16 DATE
ANITA JEN 100% CDS	03/02/16 DATE
ANITA JEN 100% CDS WITH STRUCTURALS	04/12/16 DATE
MATHEW BRUNELLO CONSTRUCTION	02/17/16 DATE
JEFF LIENERT SITE ACQUISITION	02/18/16 DATE

PROJECT NAME
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SITE NAME
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FA NUMBER
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BIG SUR, CALIFORNIA 93920

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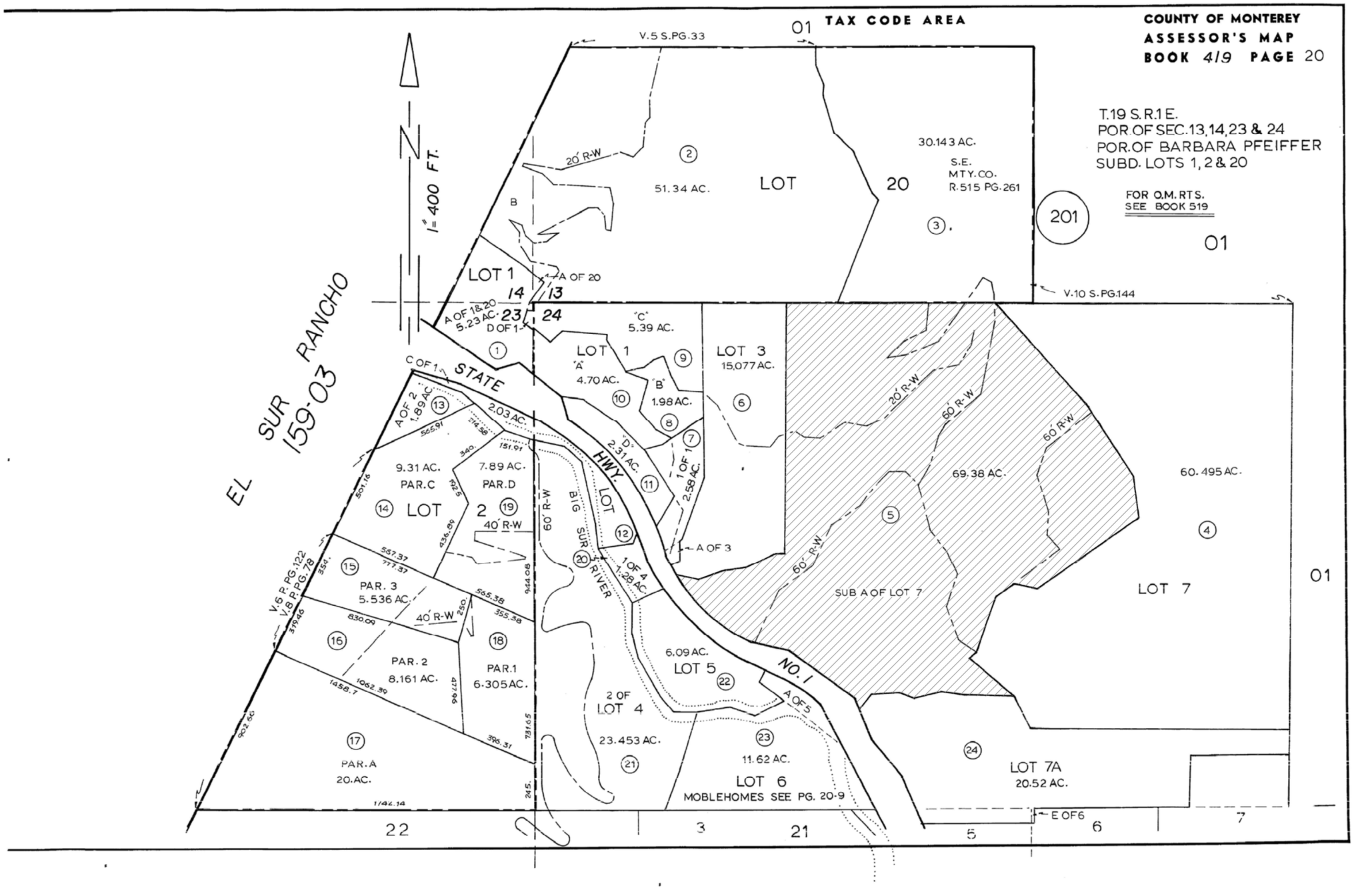
09/12/16	PLANNING COMMENTS (P1-B4)
09/30/16	CORRECTIONS (P1-B5)

SHEET TITLE

ANTENNA MOUNTING DETAILS

A-5.2

JRA JOB NUMBER: 152728



REFERENCE SHEET

SCALE:	1
NONE	

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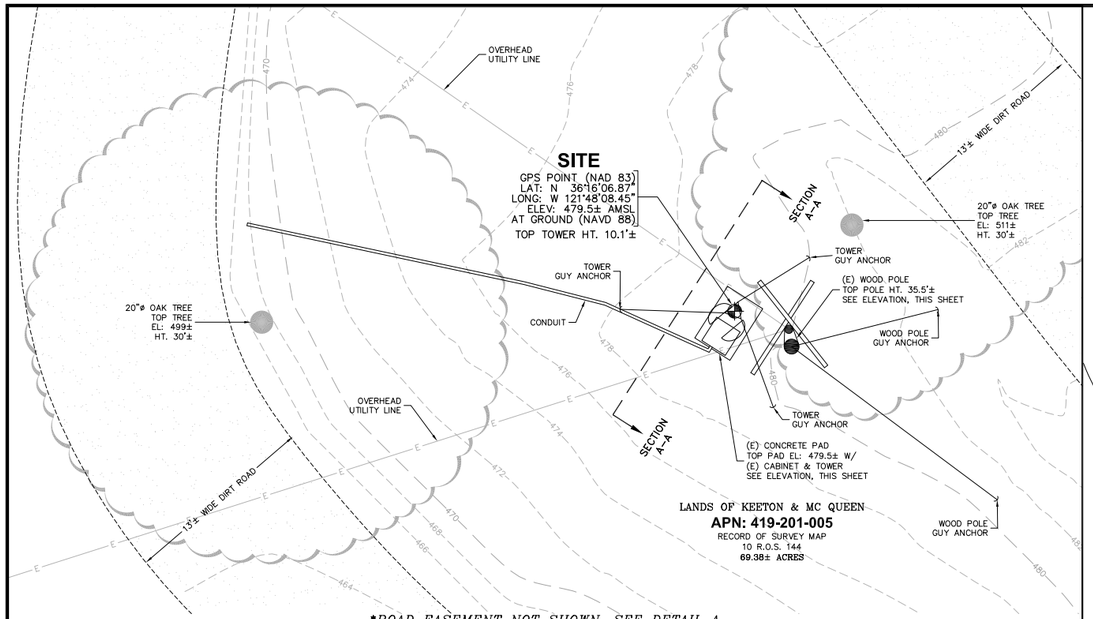
09/12/16	PLANNING COMMENTS (P1–B4)
09/30/16	CORRECTIONS (P1–B5)

SHEET TITLE

REFERENCE SHEET

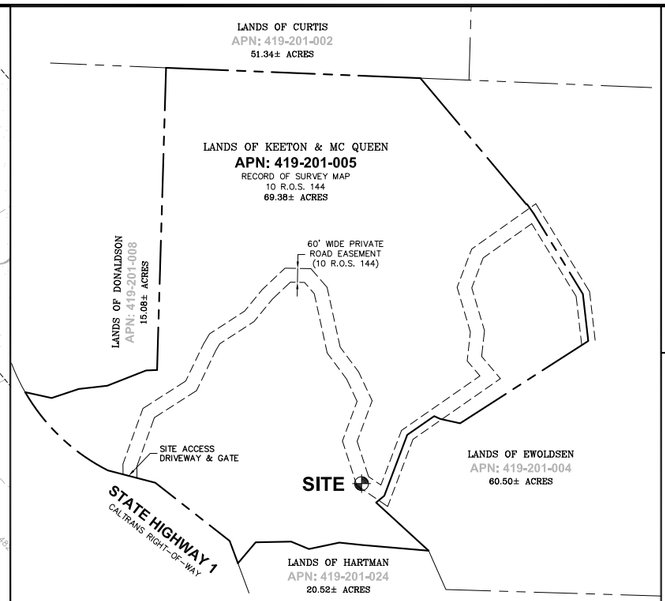
RF-1

JRA JOB NUMBER: 152728

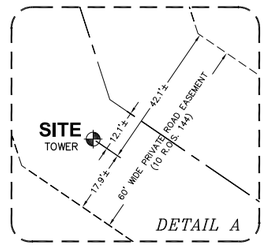


*ROAD EASEMENT NOT SHOWN, SEE DETAIL A

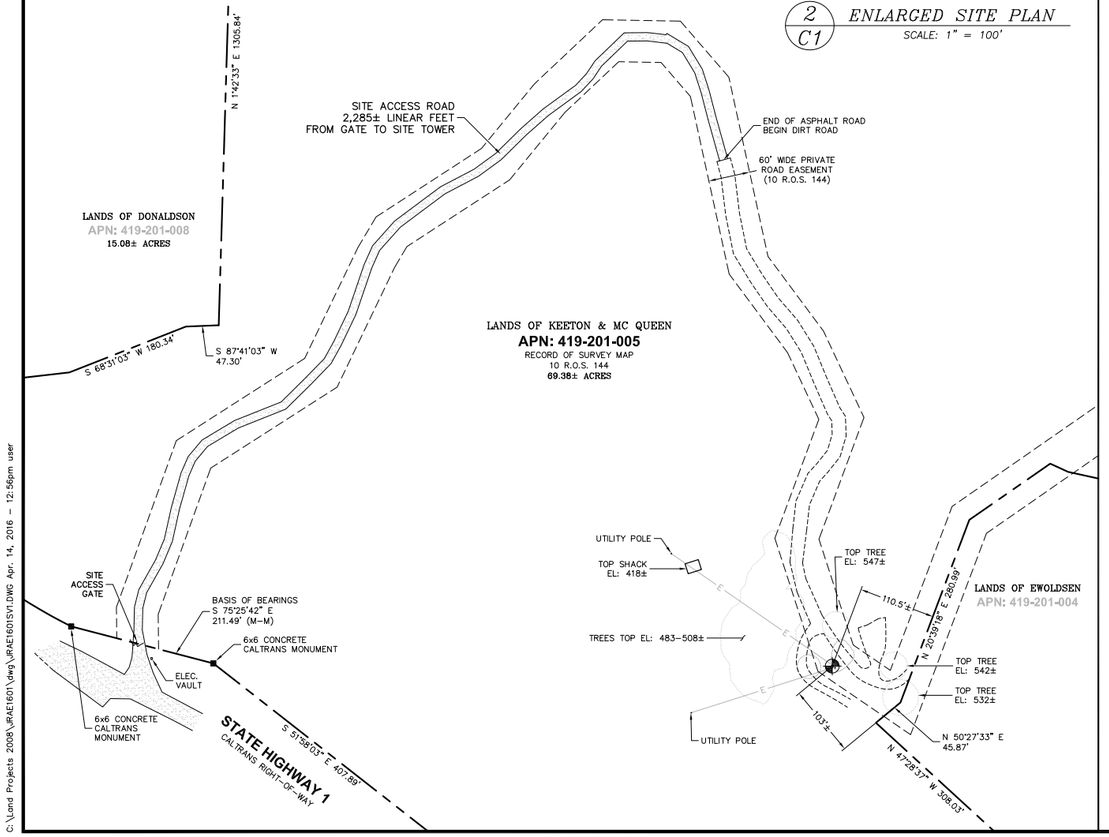
3/C1 LEASE AREA PLAN
SCALE: 1" = 5'



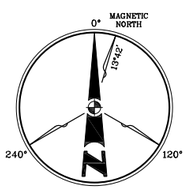
1/C1 SITE PLAN
SCALE: 1" = 300'



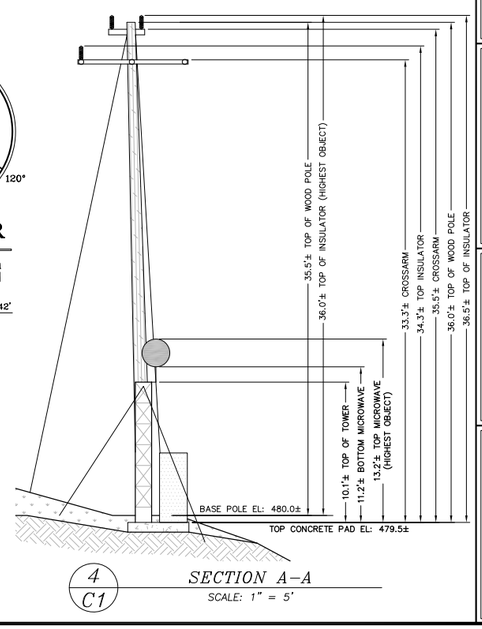
SUFFICIENT SURVEY EVIDENCE WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE, ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA SHOWN HEREON IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.



2/C1 ENLARGED SITE PLAN
SCALE: 1" = 100'

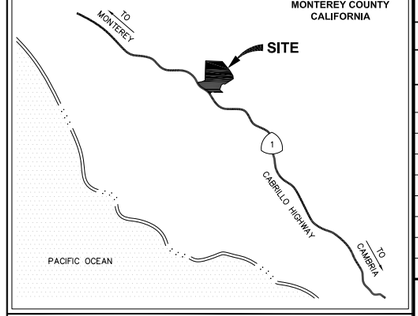


QUIET RIVER
Land Services Inc.
1 1/2 0 1
SCALE IN INCHES
MAGNETIC DECLINATION = 13°42'
PER NOAA-NGDC



4/C1 SECTION A-A
SCALE: 1" = 5'

VICINITY MAP
NOT TO SCALE



PROPERTY INFORMATION

Owner: KEETON RICHARD & SUSAN/MC QUEEN DON A
Address: PO BOX 249
BIG SUR, CA 93920

Site: BIG SUR MW REPEATER
Address: 47000 HIGHWAY 1
BIG SUR, CA 93920

Assessor's Parcel Number: 419-201-005

Height of Building/Tower: 10.1'± AMSL TOP OF TOWER

Title Report:
TITLE REPORT FOR THIS PROPERTY WAS PROSVDED BY NORTH AMERICAN TITLE, REPORT NO. 5026900-4402-5129909, DATEAD AS OF MARCH 8, 2016.

Legal Description:
PROPERTY SITUATED IN THE CITY OF BIG SUR, COUNTY OF MONTEREY, STATE OF CALIFORNIA.

FEMA FLOOD ZONE DESIGNATION National Flood Insurance Program

County: MONTEREY Effective Date: APRIL 2, 2009
Community-Panel Number: 06053C-0720-G
The Flood Zone Designation for this site as plotted by scale is:

ZONE X (no shading) – Areas determined to be outside the 0.2% annual chance floodplain.

SURVEY DATA

NAD 83 Datum:
Lat: N 36°16'06.87" Long: W 121°48'08.45"
Datum Base: NAD 83 Equipment Used: Topcon Hiperlite Receiver (See Note 2)
Site Ground Elevation: 479.5± AMSL (NAVD88) TOP CONCRETE TOWER PAD
Basis of Elevations:
GLOBAL POSITIONING SYSTEM (GPS)
(SEE NOTE 2)
Basis of Bearings:
CALIFORNIA COORDINATES ZONE IV, AND TWO FOUND CAL-TRANS MONUMENTS AS SHOWN.
Date of Field Survey: FEBRUARY 8, 2016

NOTES

1.) This is not a boundary survey. This is a specialized topographic map with property lines and easements being a graphic depiction of various information gathered from preliminary title reports, back-up documents of record, maps and available monuments found during the field survey. No property monuments were set. No title research was performed by Quiet River Land Services, Inc.

2.) The latitude, longitude and elevation shown hereon were derived from post-processed L-1/L-2 data collected using Navstar Global Positioning System (GPS) and a Topcon Hiperlite Receiver. Topcon specifications report decimeter level accuracy (horizontally) when data is properly collected and processed. (Elevation = ±3.0 feet.)

3.) Unless otherwise noted, no underground utility locating service company was contacted prior to this map being prepared; therefore, there may be non-visible or obscure utilities existing on the property not shown on this map – so CALL BEFORE YOU DIG.

4.) Any electronic digital media provided by Quiet River Land Services, Inc. to our client is a courtesy and is not to be reproduced, distributed, sold, altered, revised, edited or amended without the express written consent of an Officer of Quiet River Land Services, Inc. Further, only the final stamped, signed and dated original "hard copy" version of our survey or map is considered to be our legally recognized product.

SURVEYOR'S STATEMENT

I, the undersigned, a Registered Professional Land Surveyor licensed under the laws of the State of California do hereby state that the information, measurements, easements, record boundary lines, bearings and distances as shown hereon are based upon a field survey as dated above and upon items of public record and data contained in a title report, as referenced. Furthermore, the Latitude and Longitude coordinates are reported in NAD 83 Datum and are accurate to within ±15 feet horizontally, and the ground elevation, reported in NAVD 1988 Datum, is within ±3 feet vertically. The coordinate values and elevations are within the 1-A Accuracy Code designation as listed in the A.S.A.C. Information Sheet 91:003 and are accurate to the best of my knowledge and belief.

SIGNATURE DATE

LEGEND

APN:	ASSESSOR'S PARCEL NUMBER		ASPHALT
CP	CONTROL POINT		CONCRETE
EL.	ELEVATION		CONTROL POINT
FH	FIRE HYDRANT		FOUND MONUMENT
FND.	FOUND		GPS POINT
HT.	HEIGHT		PARAPET/ROOF ELEVATIONS
MON.	MONUMENT	P 15.3 / R 12.3	SPOT ELEVATION
(M-M)	MONUMENT TO MONUMENT	× 12.3	TEMPORARY BENCHMARK
P.O.B.	POINT OF BEGINNING		
P.O.C.	POINT OF COMMENCEMENT		
PP	POWER POLE		
(TYP.)	TYPICAL		

DATE: APRIL 14, 2016
DRAWN BY: MAS
FILE NO.: JRAE1601

REVISIONS

DATE	DESCRIPTION	INITIAL
2/9/16	90% ISSUE	MAS
4/14/16	100% COMPLETE	MAS

at&t
AT&T MOBILITY
5001 Executive Parkway
San Ramon, CA 94583

QUIET RIVER
Land Services Inc.
11501 Dublin Boulevard, Suite 200
Dublin, CA 94568
(925) 734-6788 Phone

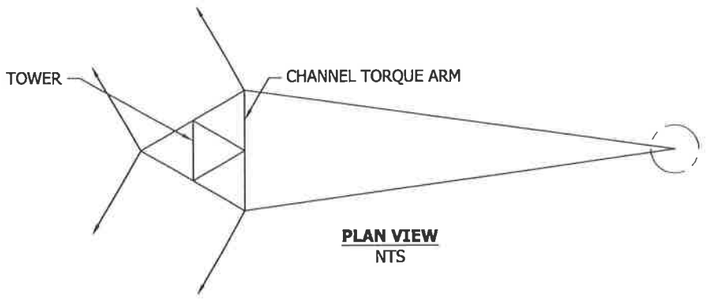
EXISTING SITE CONDITIONS

BIG SUR MW REPEATER

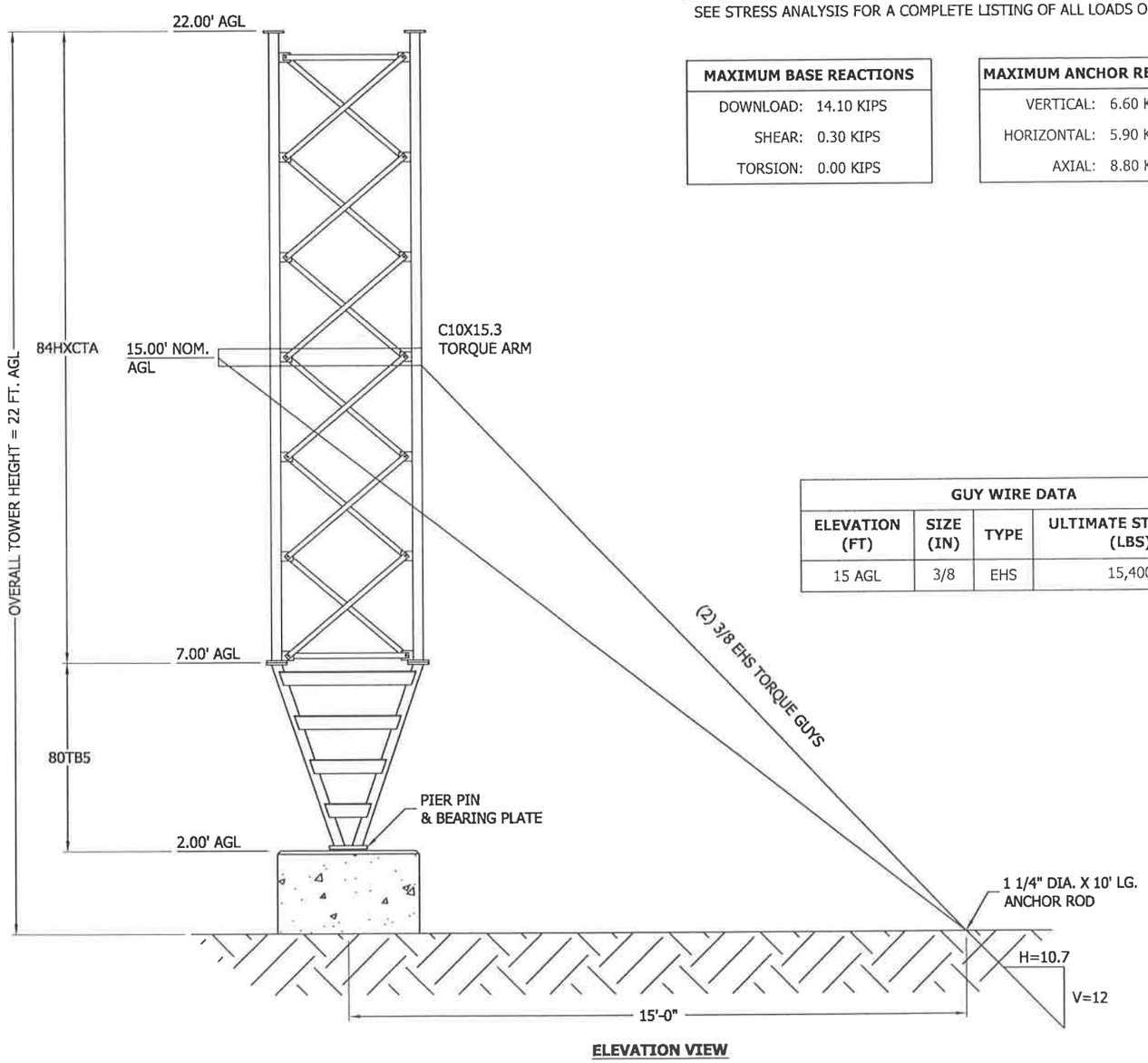
47000 HIGHWAY 1
BIG SUR, CA 93920

C1
OF 1 SHEET

C:\Land Projects 2008\JRAE1601\dwg\JRAE1601SV1.DWG Apr. 14, 2016 - 12:56pm user



PLAN VIEW
NTS



ELEVATION VIEW

TOWER DESIGN LOADING		
DESIGN WIND LOAD PER ANSI/TIA-222-G: ULTIMATE WIND SPEED PER ASCE 7-10 (NO ICE): 110 MPH DESIGN ICE THICKNESS: 0.75 IN. STRUCTURE CLASS: II EXPOSURE CATEGORY: C TOPOGRAPHIC CATEGORY: 1 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, S_S: 1.301 THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		
ELEVATION (FT)	**ANTENNA TYPE**	**LINE SIZE (NOM)**
20 AGL	(2) HP4 DISHES (AZIMUTHS 145.181 & 295.07 DEGREES)	(4) EW63 MAX.
18 AGL	(4) ODU'S PIPE MOUNTED	(4) LMR400 OR EQUIV.

SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON TOWER.

MAXIMUM BASE REACTIONS	
DOWNLOAD:	14.10 KIPS
SHEAR:	0.30 KIPS
TORSION:	0.00 KIPS

MAXIMUM ANCHOR REACTIONS	
VERTICAL:	6.60 KIPS
HORIZONTAL:	5.90 KIPS
AXIAL:	8.80 KIPS

GENERAL NOTES:

1. ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
2. THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-G AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
3. ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
4. TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
5. WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
6. THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI, EXCEPT AS NOTED BELOW:
   TOWER BRACES SHALL BE 42 KSI.
   STRUCTURAL PLATES AND CHANNEL TORQUE ARMS SHALL BE 36 KSI.
7. FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
8. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325, EXCEPT WHERE NOTED.
9. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
10. STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ANSI/TIA-222-G.
11. ALL HIGH STRENGTH BOLTS ARE TO BE TIGHTENED TO A "SNUGTIGHT CONDITION" PER AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
12. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
13. TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
14. DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-G.
15. DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
16. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO TEMPORARILY GUY THE STRUCTURE WHEN REQUIRED DURING ERECTIONS TO MAINTAIN THE STABILITY OF THE STRUCTURE AND TO PREVENT OVERLOADING ANY MEMBER OF THE STRUCTURE.
17. FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.

GUY WIRE DATA			
ELEVATION (FT)	**SIZE (IN)**	**TYPE**	**ULTIMATE STRENGTH (LBS)**
15 AGL	3/8	EHS	15,400

SECTION MAIN MEMBER SCHEDULE				
ELEVATION (FT)	**SECTION**	**LEG**	**DIAGONAL**	**HORIZONTAL**
0 - 5	80TB5	PIPE 2.875 X 0.276	-	L 4 X 4 X 1/4
5 - 20	84HXCTA	PIPE 2.875 X 0.276	PIPE 1.500 X 0.058	PIPE 1.500 X 0.058

NOTE: SECTION NUMBERS ARE FOR REFERENCE ONLY.
FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.

FILE NO.
217648

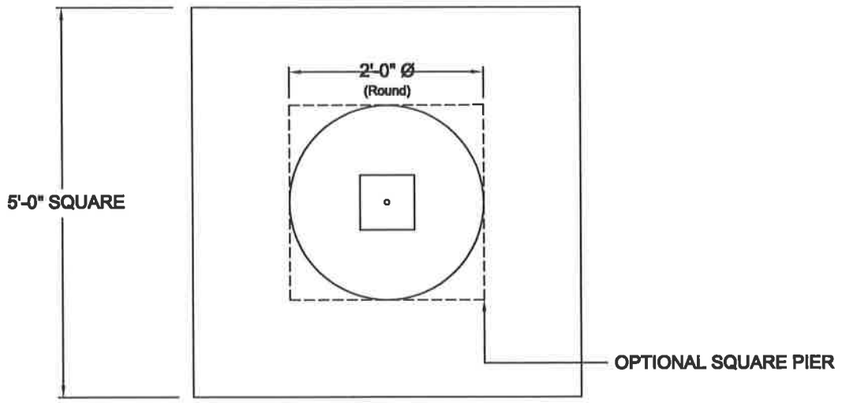
REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP

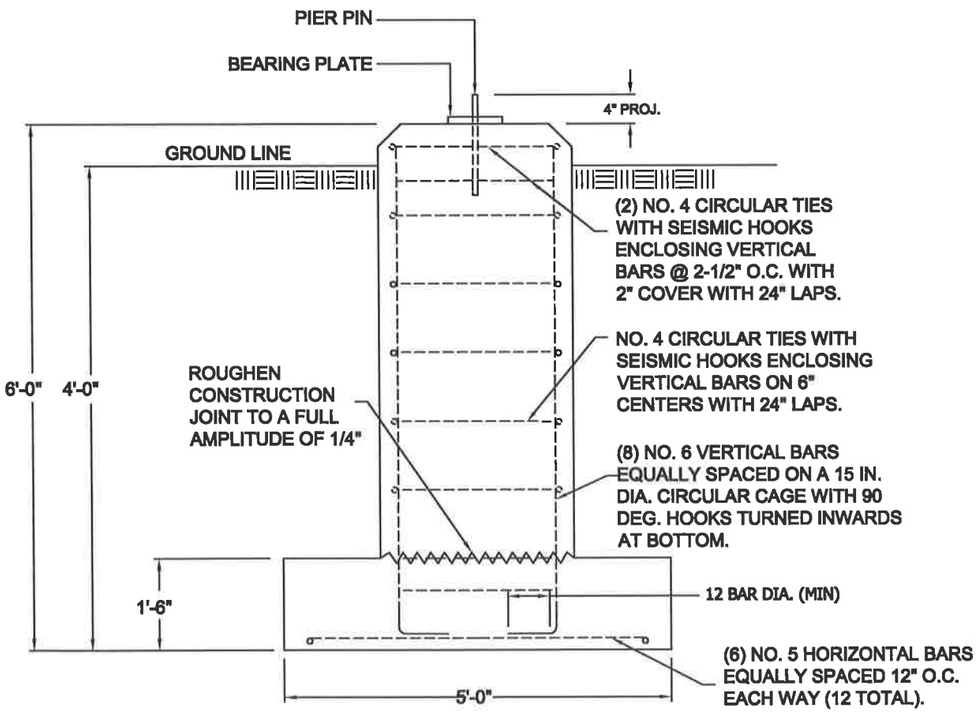
ROHN® PRODUCTS, LLC
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

JEFFREY ROME & ASSOCIATES
DESIGN PROFILE
22 FT (AGL) MODEL 80 GUYED TOWER
BIG SUR, CA

DWN:	CHK'D:	DATE:
JHY	OH	04/08/2016
ENG'R: HA	SHEET #: 1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO: 217648-01-D1	REV: 0	



PLAN VIEW



ELEVATION VIEW

FACTORED REACTION

DOWNLOAD = 14.1 KIPS

CONCRETE VOLUME

(ROUND PIER)

1.9 CU. YDS

GENERAL NOTES

1. FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
   A) ULTIMATE SOIL BEARING PRESSURE AT 4 FT DEPTH = 3,000 PSF.
   B) GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
   C) MAXIMUM FROST DEPTH LESS THAN DEPTH OF FOUNDATION..
2. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
3. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
4. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
5. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
6. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
7. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
8. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
9. FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 MM) MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (16 KN/M3).
10. FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **2016723.161108.01** DATED **FEBRUARY 23, 2016** BY **GPD GROUP, INC.**
11. FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
12. FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
13. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
14. FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
15. FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
16. FOR FOUNDATION AND ANCHOR TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
17. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
18. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
19. CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
20. CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 MM). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
21. TOP OF FOUNDATION OUTSIDE LIMITS OF BEARING PLATE SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF BEARING PLATE SHALL BE LEVEL
22. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

FILE NO. 217648

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP

ROHN PRODUCTS
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

JEFFREY ROME & ASSOCIATES
BASE PIER FOUNDATION

BIG SUR MW REPEATER, CA

DWN:	CHK'D:	DATE:
DWG	HA	04/08/16

ENG'R:	SHEET #:
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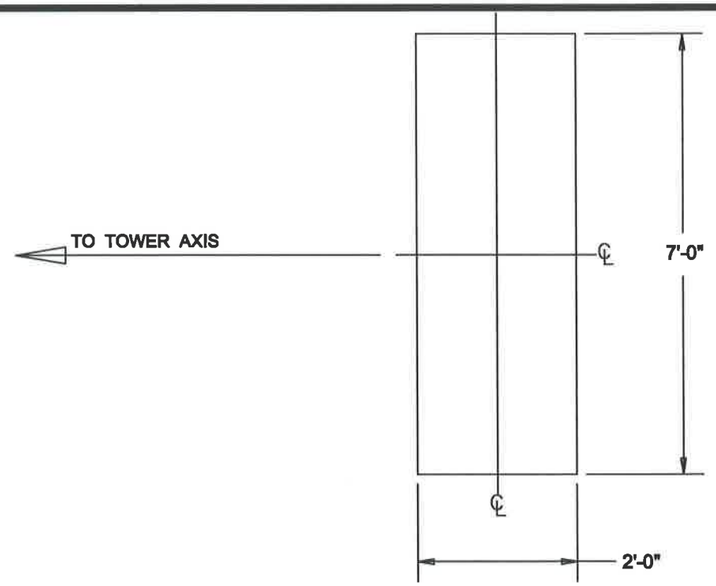
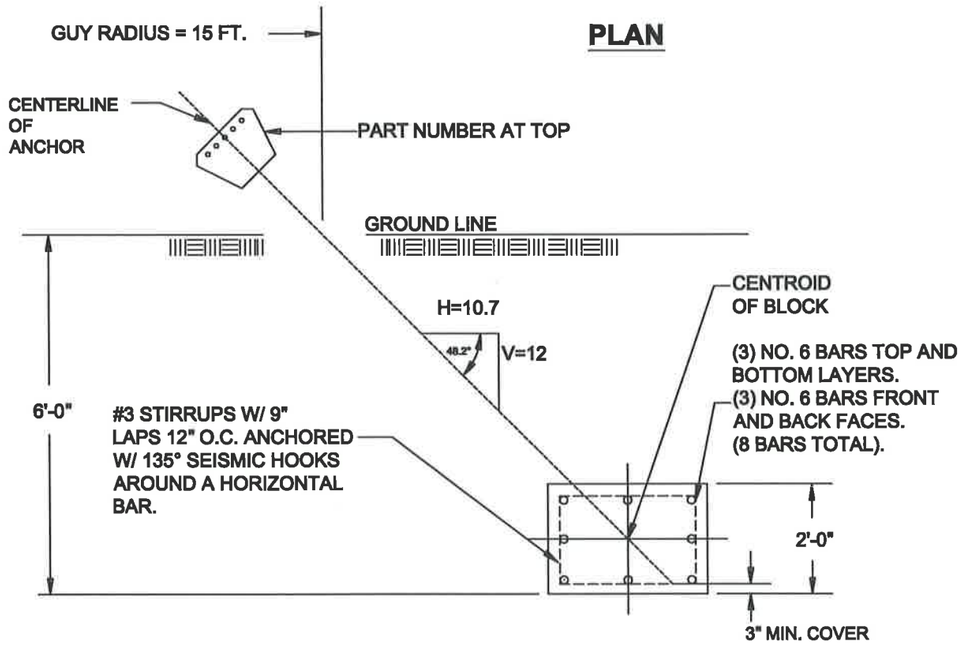
217648-01-F1	0



PLAN



ELEVATION

FACTORED REACTIONS

HORIZONTAL = 5.9 KIPS
VERTICAL = -6.6 KIPS

VOLUME OF CONCRETE

1.04 CU.YDS. PER BLOCK
3.12 CU.YDS. FOR 3 BLOCKS

GENERAL NOTES

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   A) UPLIFT ANGLE WITH VERTICAL = 20.0 DEGREES.
   B) ULTIMATE NET HORIZONTAL PRESSURE = 120 PSF/FT.
   C) GROUND WATER TABLE AT OR BELOW DEPTH OF FOUNDATION.
2. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
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5. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
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19. FOUNDATION DESIGN ASSUMES CONTINUOUS CONCRETE PLACEMENT WITHOUT CONSTRUCTION JOINTS.
20. THE PORTION OF ALL STEEL ANCHORS, FROM TOP OF ANCHOR BLOCK TO GROUND LEVEL, SHALL BE COATED WITH BITUMEN. DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURES MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.
21. GRADING MAY BE REQUIRED TO PROVIDE PROPER DRAINAGE AWAY FROM ANCHOR AND TO MAINTAIN 6 INCHES (152MM) MINIMUM CLEARANCE TO EQUALIZER PLATE.
22. DEPTH OF ANCHOR BLOCK SHOWN ON DRAWING MUST BE MAINTAINED AT ALL POINTS WITHIN AN AREA DEFINED BY THE PLAN DIMENSIONS OF THE ANCHOR BLOCK PLUS HORIZONTAL DISTANCE IN EACH DIRECTION EQUAL TO THE SPECIFIED ANCHOR BLOCK DEPTH BELOW GRADE. FILL, WHEN REQUIRED, SHALL MEET THE COMPACTION REQUIREMENTS SPECIFIED FOR STRUCTURAL BACKFILL.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

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ANCHOR BLOCK FOUNDATION

BIG SUR MW REPEATER, CA

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DWG	HA	04/08/16
ENG'R: HA	SHEET #:	
PRJ. ENG'R: DWG	PRJ. MANG'R:	
DRAWING NO: 217648-01-F2	REV: 0	

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