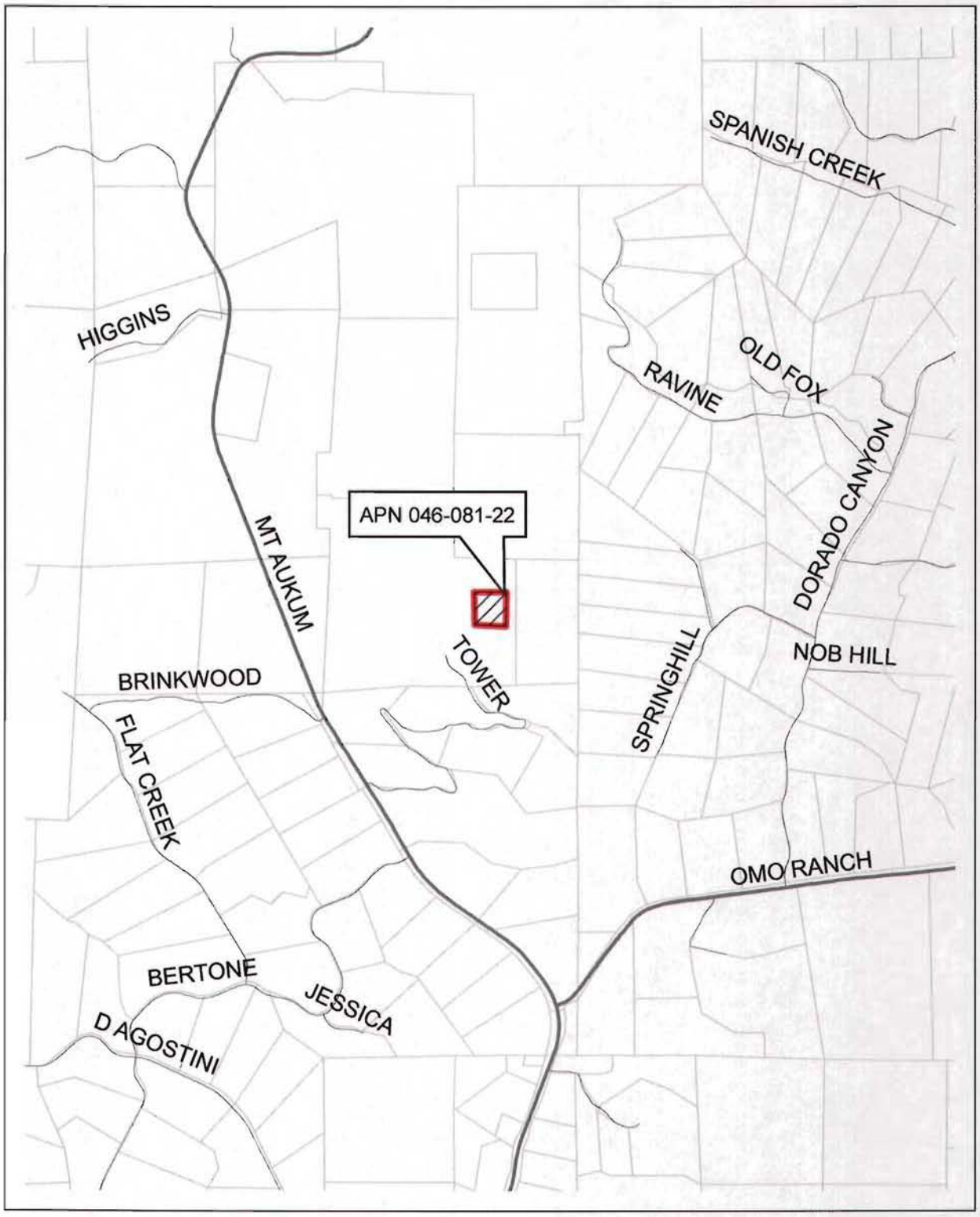


File No.
S64-0012-R-3
Location Map

Verizon Wireless Mt. Aukum

0 0.25 0.5 1 Miles

Exhibit A

S64-0012-R As Approved by the Zoning Administrator December 16, 2009

CONDITIONS OF APPROVAL

PROJECT DESCRIPTION

1. This Special Use Permit Revision is based upon and limited to compliance with the project description, the Staff Report exhibits marked Exhibits E through F and conditions of approval set forth below. Any deviations from the project description, exhibits, or conditions must be reviewed and approved by the County for conformity with this approval. Deviations may require approved changes to the permit and/or further environmental review. Deviations without the above described approval will constitute a violation of permit approval.

   Special Use Permit S64-0012 allows the following:

   Addition to existing building for radio beam site and for general service administration personnel for computers.

   This revision to Special Use Permit S64-0012-R allows the following:

   The removal of four (4) omni antennas and the installation of six (6) new panel antennas. The new mounts shall be painted to match the existing lattice structure and existing building and shall not exceed the height of the existing mounts. The new panels shall match the color of the existing panels and shall not exceed the height of the existing panels. Any new equipment shall be contained in the existing building.

   No increase in height of the 29.7 foot lattice structure shall be authorized by this permit revision.

   Scope of Work for New Project (El Dorado County BP #238589)
   Replace (3) (E) BXA-70040, (1) (E) BXA-80063 and (2) BXA-80040 antennas with (6) (N) SBNHH-1D65B antennas. Install (2) (N) SBNHH-1D65B antennas for (N) B2B sector. Install (4) (N) RRUS-12 with A-2 packs for AWS. Install (2) (N) Raycap Surge Protectors (1 @ antennas & 1 @ equipment). Install (1) (N) eNodeB cabinet. Install (1) (N) Hybrid cable. Replace (12) (E) runs of 7/8" coax with (14) (N) runs of 1 5/8" coax. Replace (E) cable tray with wider one to accommodate larger coax. The new mounts shall be painted to match the existing lattice structure and existing building and shall not exceed the height of the existing mounts. The new panels shall match the color of the existing panels and shall not exceed the height of the existing panels. Any new equipment shall be contained in the existing building.

   The grading, development, use, and maintenance of the property, the size, shape, arrangement, and location of structures, parking areas and landscape areas, and the protection and preservation of resources shall conform to the project description above and the hearing exhibits and conditions of approval below. The property and any portions thereof shall be sold, leased or financed in compliance with this project description and the approved hearing exhibits and conditions of approval hereto. All plans must be submitted for review and approval and shall be implemented as approved by the County.

b. Hold a public hearing to determine whether to modify the conditions of approval in order to reduce identified adverse impacts; or initiate proceedings to revoke the special use permit, requiring the facility's removal if it is no longer an integral part of the wireless communications system.

By operation of this condition, it is the intent of County to reserve the right to modify or add new conditions, consistent with the language specified above. The failure of the County to conduct or complete a five-year review in a timely fashion shall not invalidate the Special Use Permit. The applicant shall pay a fee determined by the Development Services Director to cover the cost of processing a five-year review on a time and materials basis.
The applicant accepts this condition

9. Prior to commencement of any use authorized by this permit, the applicant shall provide a written description, together with appropriate documentation, showing conformance of the project with each condition imposed as part of the project approval. The applicant shall also schedule an inspection by Planning Services for verification of compliance with applicable conditions of approval. The operator shall pay Planning Services for the time spent reviewing the site on a time and materials basis. All future development plans shall include this condition on the submitted plans.
The applicant accepts this condition and has provided documentation.

10. The operator (lessee) and property owner (lessor) are responsible for complying with all conditions of approval contained in this Special Use Permit. Any zoning violations concerning the installation, operation, and/or abandonment of the facility are the responsibility of the owner and the operator.
The applicant is in compliance will all zoning conditions.

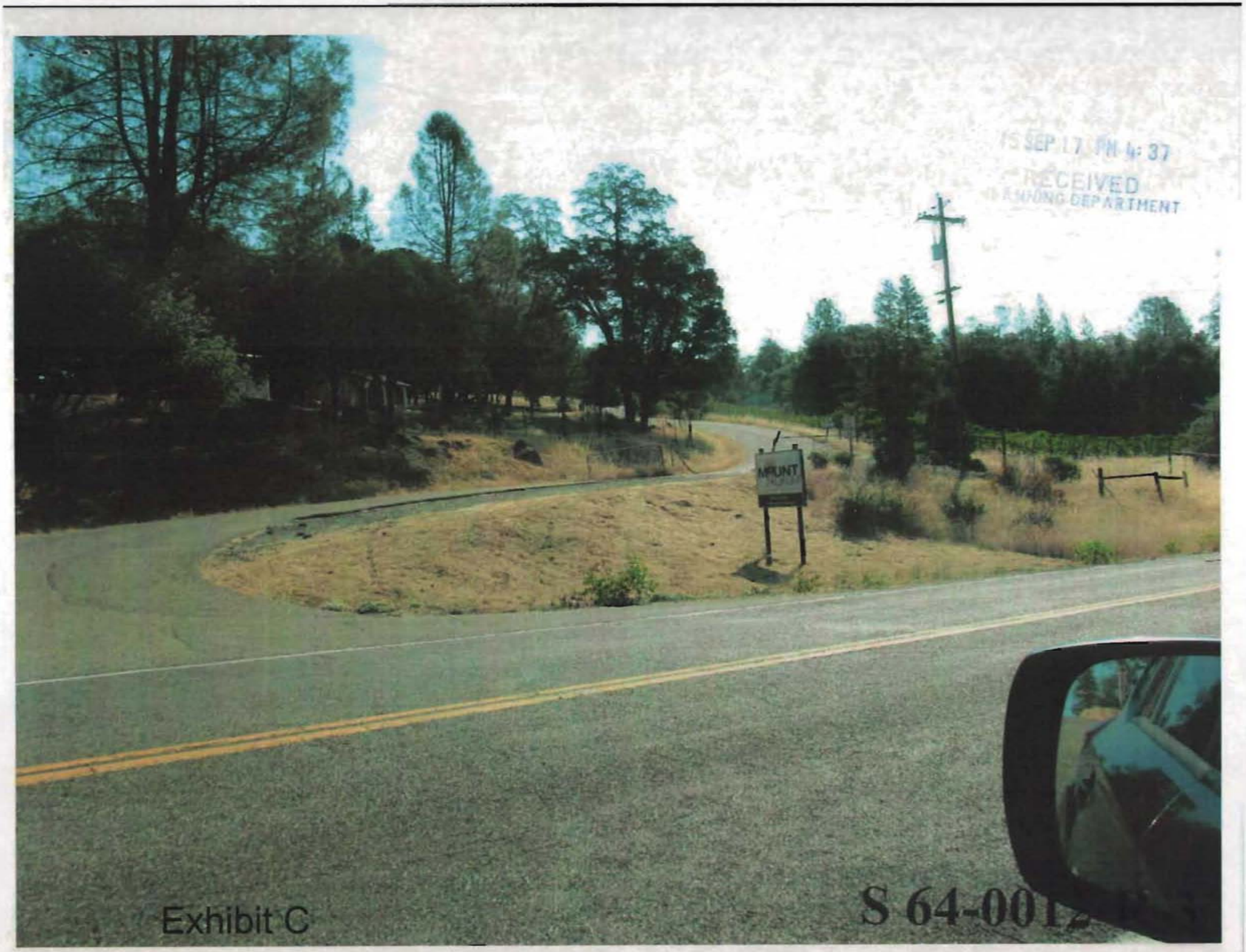
11. All Development Services fees for processing this application shall be paid in full prior to issuance of a Building Permit.
The applicant accepts this condition.

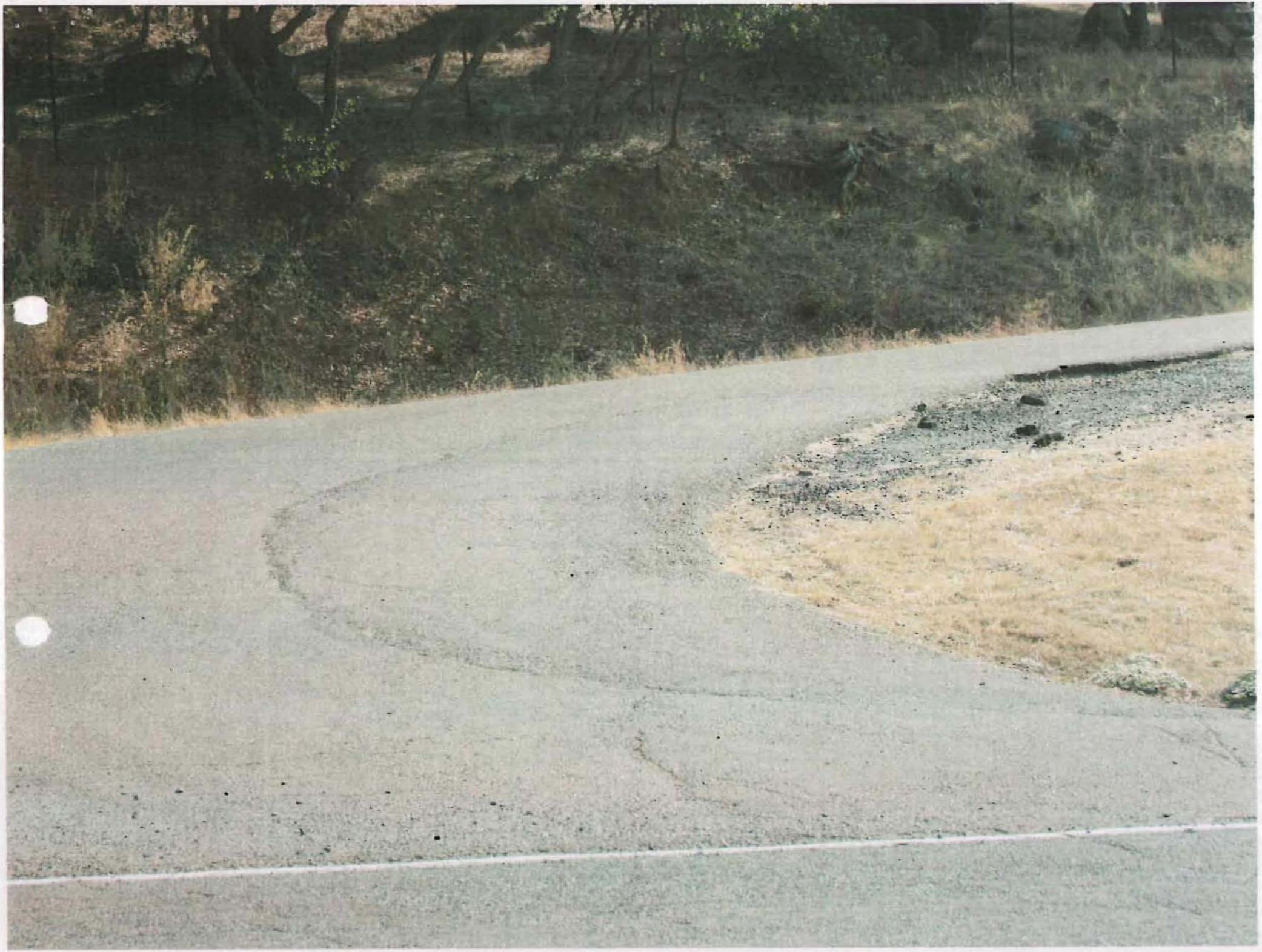
12. In the event of any legal action instituted by a third party challenging the validity of any provision of this approval, the applicant and landowner agrees to be responsible for the costs of defending such suit and shall hold County harmless from any legal fees or costs County may incur as a result of such action.

The applicant and land owner shall defend, indemnify, and hold harmless El Dorado County and its agents, officers, and employees from any claim, action, or proceeding against El Dorado County or its agents, officers, or employees to attack, set aside, void, or annul an approval of El Dorado County concerning a Special Use Permit.

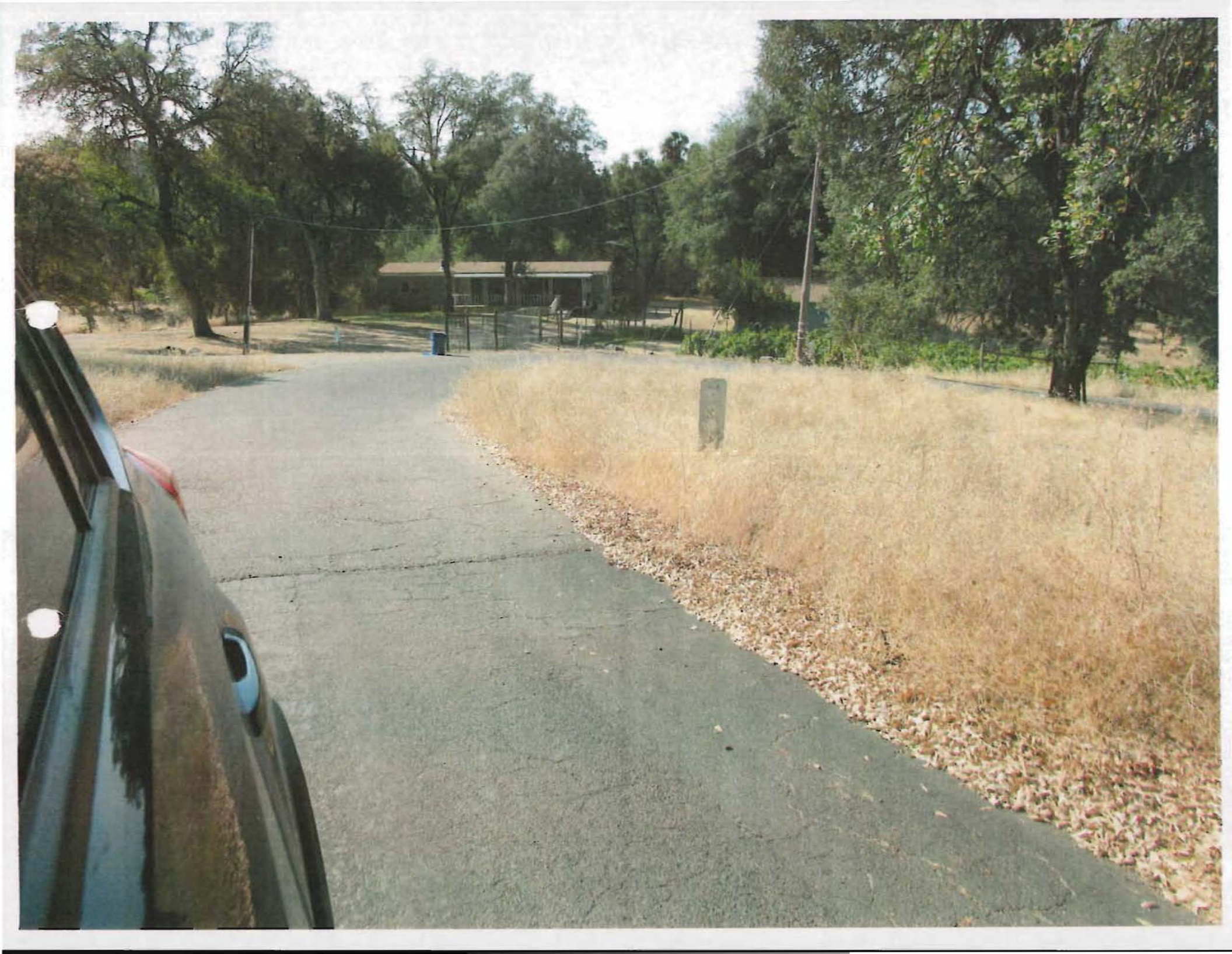
The County shall notify the applicant/owner of any claim, action, or proceeding and County will cooperate fully in the defense.
The applicant accepts this condition.

FINDINGS

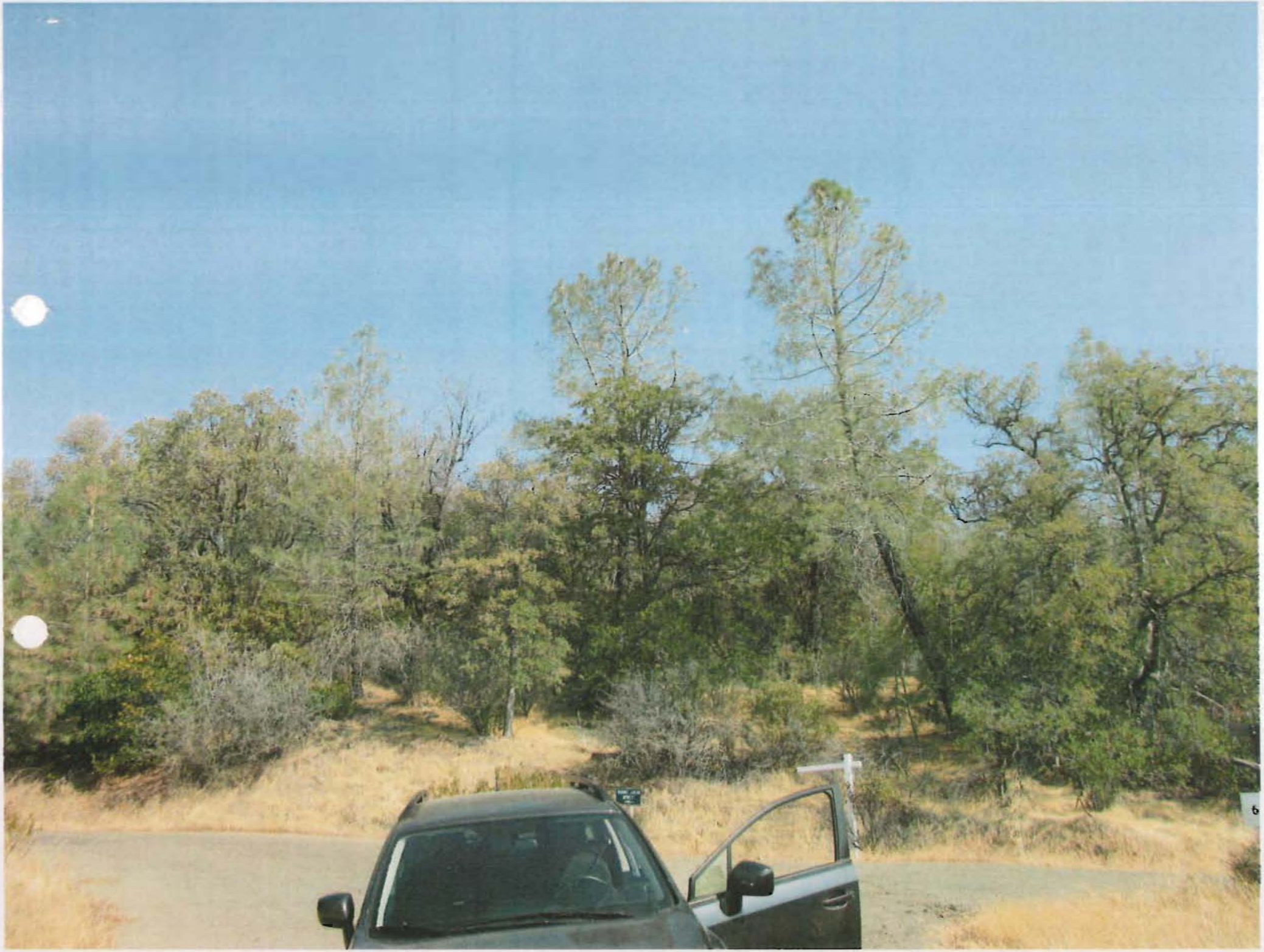

MOUNT
15 SEP 17 PM 4:37
RECEIVED
PLANNING DEPARTMENT
Exhibit C
S 64-001




MOUNT
AUKUM
WINERY
Open Daily




RECEIVED
DEPARTMENT




MOUNT AUBURN
WINERY

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY VERIZON WIRELESS (WHERE REQUIRED) OF ANY CHANGES, DIMENSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, DETAILS, OR SPECIFICATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH WAS NOT BROUGHT TO THE ATTENTION OF VERIZON WIRELESS (WHERE REQUIRED) AND SHALL BEAR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY VERIZON WIRELESS (WHERE REQUIRED).
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO VERIZON WIRELESS (WHERE REQUIRED). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUBCONTRACTOR(S).
3. A COPY OF GOVERNING AGENCY APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW, SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION BIDS SHALL REFLECT THE SAME INFORMATION AS GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS, IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PROJECT AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY VERIZON WIRELESS (WHERE REQUIRED) WITH A COPY OF ALL REVISIONS, ADDENDA, AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING RECORDS.
4. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT AND SHALL MAKE THE WORK GOOD PROGRESS UNTIL THE JOB IS COMPLETE.
6. THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT SAID FROM DAMAGE. THE CONTRACTOR, OR SUBCONTRACTOR AS SPECIFIED IN THE AGREEMENT BETWEEN SUBCONTRACTOR AND CONTRACTOR, SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
7. THE KEYSHEETS ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.
8. ALL CONSTRUCTION THROUGHOUT THE PROJECT SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS.
9. ALL GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 24 OF THE U.S. CONSUMER SAFETY COMMISSION SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 14CBR, CFR PART 1201) AND LOCAL JURISDICTIONAL REQUIREMENTS.
10. ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINISHES AFFECTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
    A. PROPERTY NOTED TO BE RETURNED TO THE OWNER.
    B. PROPERTY NOTED TO BE REMAIN BY THE OWNER.
11. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT. THESE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING MINIMUM REQUIREMENTS SHALL BE USED FOR INSTALLATION.
12. WHEN REQUIRED SPACINGS OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER FINISH FRAMING OR SURFACE TO AS NOT TO EXCEED THE DESIGNED LIVE LOAD FOR THE STRUCTURE. TEMPORARY BRACING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE HAS NOT ATTAINED THE DESIGN CONDITION FOR THESE PURPOSES.
13. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCE. VERIZON WIRELESS (WHERE REQUIRED) IS NOT RESPONSIBLE FOR ANY ERRORS RESULTING FROM AND PRINTING PROCESS SHRINKING THAT PRECLUDES OVER SCALE SHOWN ON PLANS.
14. PRIOR TO THE POURING OF ANY NEW SLAB OVER AN EXISTING SLAB THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, DUCTS, AND EQUIPMENT WHICH ARE TO BE INCORPORATED INTO THE NEW WORK. ALL ITEMS DESIGNATED TO BE ABANDONED SHALL BE REMOVED AND BROUGHT TO THE OWNER AND VERIZON WIRELESS (WHERE REQUIRED) AS PART OF THE AS-BUILT DRAWING PACKAGE.
15. BUILDING INSPECTORS, AND/OR OTHER GOVERNING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY COVERING, CONSTRUCTION, AND ANY OTHER PROCESS EFFORT AS MANDATED BY THE GOVERNING AGENCY.
16. OWNER, CONTRACTOR, AND VERIZON WIRELESS (WHERE REQUIRED) SHALL MEET JOINTLY TO VERIFY ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
17. THE PROJECT, WHEN COMPLETED, SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS. (TITLE-24 WHEN APPLICABLE)
18. NEW CONSTRUCTION SHOULD BE EVENLY DISTRIBUTED SHALL MATCH IN TONE, TEXTURE, FINISH, AND IN MATERIALS EXISTING AS NOTED IN THE PLANS AND SPECIFICATIONS.
19. CONTRACTOR TO REPLACE AND/OR REROUTE ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCHING AND DIGGING, CONSTRUCTION.
20. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING, BLOCKING, AND/OR SLEEVES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, EQUIPMENT, AND FINISH ITEMS TO ENSURE A PROPER AND COMPLETE JOB.
21. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A PROJECT LEVEL, STRAIGHT, AND TRUE ACCORDING TO THE PLANS. THE CONTRACTOR SHALL EXAMINE THE LINES AND LEVELS OF THE EXISTING CONDITIONS WITH THOSE SHOWN ON THE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. VERIZON WIRELESS (WHERE REQUIRED) SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.
22. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL DAMAGE, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.
23. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR PROCEDURES AVAILABLE AS REQUIRED BY THE GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
24. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT USE ANY ON SITE PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.
25. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN COMBINING WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
26. TRADES ENGAGED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, PATCHING/PATCHING, ETC., SO AS TO BE RECEIVED PROPERLY BY THE WORK OF OTHER TRADES.
27. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT PREMISES AND SHALL BE KEPT IN A CLEAN CONDITION DURING CONSTRUCTION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
28. VERIZON WIRELESS (WHERE REQUIRED) DOES NOT GUARANTEE ANY PRODUCTS, PROCESS, AND/OR ANY EQUIPMENT INSTALLED BY A TRADE OR MANUFACTURER. GUARANTEES OR WARRANTY THAT MAY BE IN EFFECT IS MADE TO THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, PROCESS, AND/OR EQUIPMENT ONLY. UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
29. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER THE CONTRACT, UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE OWNER, CONTRACTOR, TO MAINTAIN THE ROOFING AS A WATERPROOF CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
30. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TRADES DURING THE CONSTRUCTION OF THE PROJECT.
31. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT AND MAKE FINAL PAYMENT FOR SAID DOCUMENT.
32. THE ARCHITECT/ENGINEER IN CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND/OR SPECIFICATIONS.
33. FIRE EXTINGUISHER RESPONSIBILITY SHALL BE VERIFIED WITH THE LOCAL FIRE MARSHALL.
34. VERIZON WIRELESS (WHERE REQUIRED) WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. VERIZON WIRELESS (WHERE REQUIRED) PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
35. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO PLACEMENT OF MONOPOLE FOOTING AND OTHER STRUCTURES TO BE PLACED IN GROUND. SEE BOUNDARY NOTE #6 ON THIS SHEET.
36. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.
37. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY CARRIER COMMISSIONING.
38. CONTRACTOR TO PROVIDE TRENCH AS REQUIRED TO INSTALL ECBN (SECTION), AND TELEPHONE (UNDERGROUND CONDUITS (#40 PVC) PER N.E.C. REQUIREMENTS. BACKFILL WITH CLEAN SAND AND COMPACT TO THE SATISFACTION OF THE DISTRICT'S INSPECTOR. REPLACE FINISH GRADE WITH MATCHING MATERIALS (GRASS, ASPHALT, CONCRETE, ETC.)
39. CALL BEFORE YOU DIG: CONTRACTOR IS REQUIRED TO CALL USA NORTH AT 1-800-227-2600 AT LEAST 72 HOURS BEFORE DIGGING.
40. CONTRACTOR TO PROVIDE HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UNLESS DURING CONSTRUCTION.
41. CONTRACTOR TO PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.
42. CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING IRRIGATION LINES TO OPERATING CONDITION, MAINTAINING FULL COVERAGE TO AFFECTED AREAS.
43. THIS FACILITY IS AN UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY.

811 Underground Service Alert
CALL 811
WWW.CALL811.COM
CONTRACTOR TO CALL NATIONWIDE ONE-CALL SYSTEMS AT LEAST (2) WORKING DAYS PRIOR TO DIGGING.

verizonwireless

MT. AUKUM AWS-B2B

6780 TOWER RD., SOMERSET, CA 95684

AWS-B2B PROJECT ID: 20151199230 PS LOCATION #: 160183

PROJECT SITE LAYOUT

DIRECTIONS TO SITE FROM VERIZON

FROM: VERIZON, 256 PARKSHORE DRIVE, FOLSOM, CA, 95681
TO: 6780 TOWER RD., SOMERSET, CA 95684

1. HEAD NORTHEAST ON PARKSHORE DR TOWARD COOLIDGE DR	0.5 MI
2. TURN LEFT ONTO PLAZA DR	427 FT
3. TURN RIGHT TO STAY ON PLAZA DR	112 FT
4. TAKE THE 1ST RIGHT TO STAY ON PLAZA DR	408 FT
5. TAKE THE 1ST LEFT ONTO BLUE RAVINE RD	0.2 MI
6. TURN RIGHT ONTO FIRESIDE CITY RD	1.1 MI
7. MERGE ONTO US-50 E VIA THE RAMP TO S LAKE TAHOE	4.7 MI
8. TAKE THE LAIRDSIDE RD EXIT	0.4 MI
9. SLIGHT RIGHT ONTO LAIRDSIDE RD	14.6 MI
10. TURN LEFT ONTO OLD PLYMOUTH-SUTTER TWIN RANCH RD	4.8 MI
11. CONTINUE ONTO MAIN ST	0.5 MI
12. CONTINUE ONTO CO RD E14/PLYMOUTH-SHENANDOAH RD/SHENANDOAH RD	0.5 MI
13. SLIGHT LEFT TO STAY ON CO RD E16/PLYMOUTH-SHENANDOAH RD/SHENANDOAH RD CONTINUE TO FOLLOW CO RD E16	10.8 MI
14. TURN RIGHT ONTO TOWER RD	
DESTINATION WILL BE ON THE RIGHT	1.3 MI

PROJECT INFORMATION

PROPERTY INFORMATION:
SITE NAME: MT. AUKUM
PS LOCATION#: 160183
AWS-B2B PROJECT ID: 20151199230
SITE ADDRESS:
6780 TOWER RD.,
SOMERSET, CA 95684

APN: 046-081-22-10

COUNTY: EL DORADO

JURISDICTION:
EL DORADO COUNTY

OCCUPANCY: U (UNMANNED)

LEASING/ZONING MANAGER:
EPIC WIRELESS
8700 AUBURN FOLSOM ROAD; SUITE 400
GRANITE BAY, CA 95746
CONTACT: HODI FIREDMAN
TELEPHONE: (916) 704-2160
EMAIL: HODI.FIREDMAN@EPICWIRELESS.NET

PROPERTY & TOWER OWNER:
OWNER: AMERICAN TOWER CORPORATION
ATTN: JOSHUA SMITH
ADDRESS: 10 PRESIDENTIAL WAY,
WOBURN, MA
TELEPHONE: 781-926-4613

SITE MANAGER/DESIGN TEAM:
EPIC WIRELESS
8700 AUBURN FOLSOM ROAD; SUITE 400
GRANITE BAY, CA 95746
CONTACT: ROGER ROACH
TELEPHONE: (916) 410-4841
EMAIL: ROGER.ROACH@EPICWIRELESS.NET

NAD 83 COORDINATES:
LATITUDE: 38.573886° N
LONGITUDE: 120.726854° W

LATITUDE: 38° 34' 26.349"
LONGITUDE: -120° 43' 387104"

SHEET INDEX

PROJECT DESCRIPTION

MINOR MODIFICATION TO AN EXISTING TELECOMMUNICATIONS SITE CONSISTING OF THE FOLLOWING:

REMOVING:
(3) RFA-70040-6CF ANTENNAS.
(1) RFA-80063-8CF ANTENNAS.
(3) RFA-80040/6CF ANTENNAS.
(12) 7/8" COAX LINES.
EXISTING CABLE TRAY.
INSTALLING:
(8) SBNHH-1D65B ANTENNAS, 2 PER SECTOR 1 EACH FOR 700/AWS AND 850 IN ALPHA, BETA AND GAMMA SECTORS AND 1 EACH FOR 700 AND AWS IN ALPHA B2B.
(4) RRH WITH A-2 PACKS FOR AWS.
(3) RAYCAP SURGE SUPPRESSORS (1 @ EQUIPMENT AND 2 @ ANTENNAS).
(1) CHOOSER CABINET.
(1) HYBRID TRUNK CABLE.
(14) 1-5/8" COAX LINES.
(1) (8) HOLE ENTRY PORT AT EQUIPMENT ROOM FOR ADDITIONAL COAX & 24" CABLE TRAY.
FINAL CONFIGURATION:
(8) SBNHH-1D65B ANTENNAS.
(4) RRH WITH A-2 PACKS FOR AWS.
(3) RAYCAP SURGE SUPPRESSORS (1 @ EQUIPMENT AND 2 @ ANTENNAS).
(1) CHOOSER CABINET.
(1) HYBRID TRUNK CABLE.
(14) 1-5/8" COAX LINES.
(1) NEW (8) HOLE ENTRY PORT AT EQUIPMENT ROOM FOR ADDITIONAL COAX & 24" CABLE TRAY.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

1. 2013 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
3. 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
4. 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
5. 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
6. 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
7. 2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
8. 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
9. 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. AWS/EIA-TIA-222-G
11. ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS.

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 11B-203.4

verizonwireless

MT. AUKUM
AWS-B2B PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

BPG WIRELESS GROUP INC

ATM Engineering
Tim McPartland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: tim@atmengineering.com

STAMP

ISSUE STATUS

INT	DATE	DESCRIPTION	REV
CAS	03/04/15	90% CD'S	0
CAS	04/13/15	95% CD'S	0
CAS	04/30/15	100% CD'S	0

SHEET TITLE:
TITLE SHEET & PROJECT INFORMATION

T-1

Exhibit D

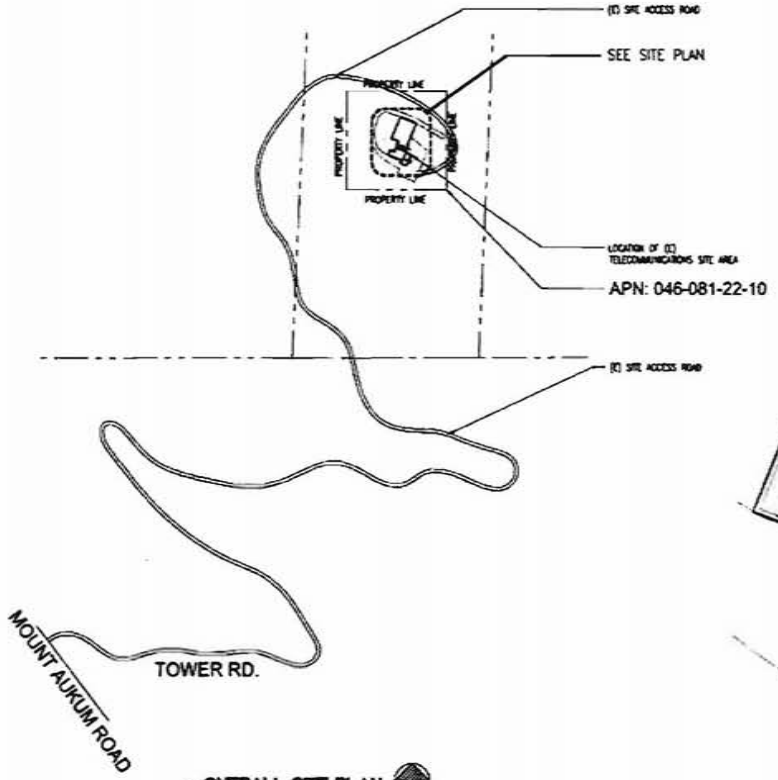
S 64-0012-R-3

NOTES:

1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.

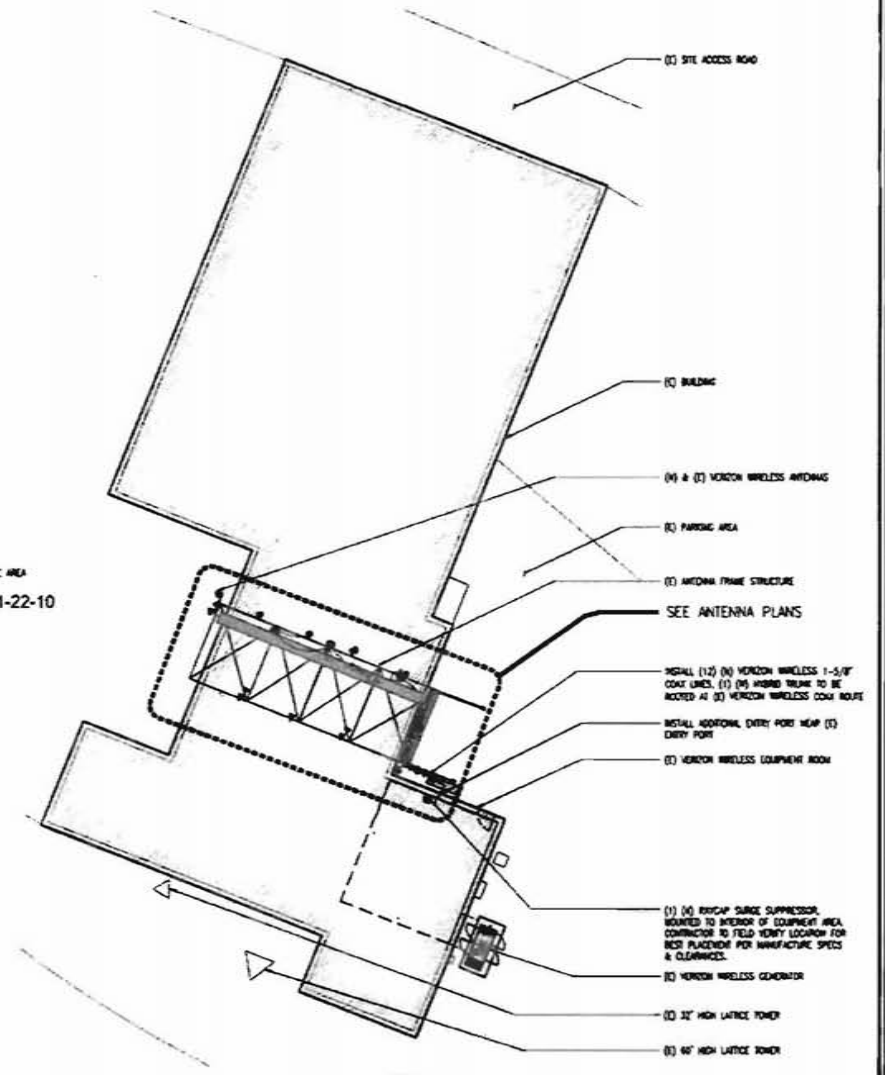
CONSTRUCTION NOTES:

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED MAY BE IMPLEMENTED WITHOUT DELAY TO THE PROJECT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2013 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2013 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
6. ALL WEATHER PROOFING, INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY SITE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.



① OVERALL SITE PLAN
SCALE: 1"=50'

NORTH



② SITE PLAN
SCALE: 1"=10'-0"

NORTH

verizonwireless

MT. AUKUM

AWS-B2B PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

BP LO WIRELESS GROUP INC

ATM Engineering
Tim McPartland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: tmm@atmengineering.com

STAMP

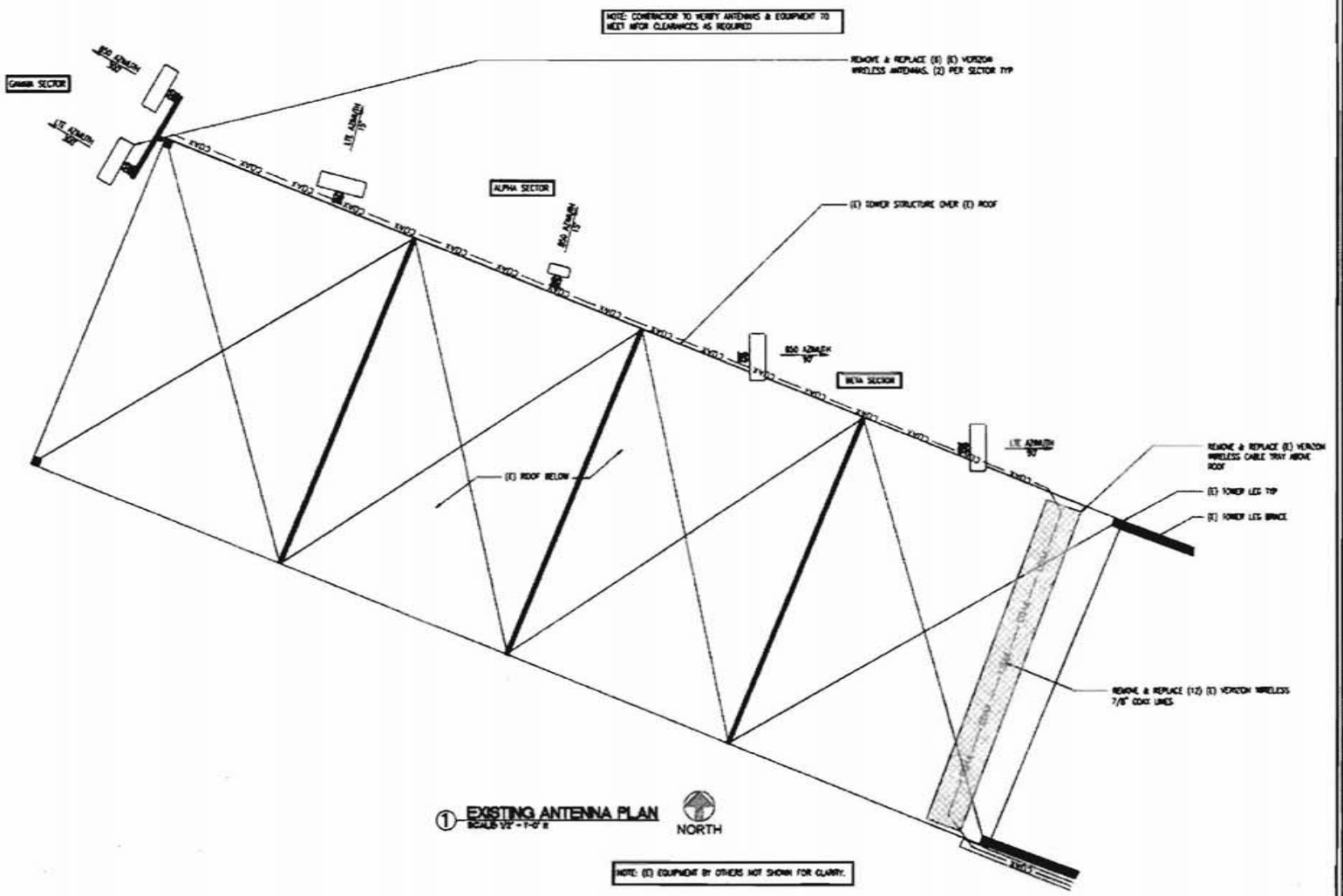
ISSUE STATUS

DWG	DATE	DESCRIPTION	REV
CAS	03/04/15	90% CD'S	0
CAS	04/13/15	95% CD'S	0
CAS	04/30/15	100% CD'S	0

SHEET TITLE:
OVERALL SITE PLAN & SITE PLAN

A-1

NOTE:
1. EPIC WIRELESS HAS NOT EVALUATED MEW OR EXISTING LOADING CONDITIONS ON THIS TOWER AS DEPICTED ON THIS DRAWING. SEE STRUCTURAL ANALYSIS BY OTHERS. DRAWING SCALE IS NOT APPLICABLE IF PRINTED ON 11"X17" SHEET SIZE.



① EXISTING ANTENNA PLAN
SCALE: 1/2" = 1'-0" ±

NOTE: (E) EQUIPMENT BY OTHERS NOT SHOWN FOR CLARITY.

verizon wireless

MT. AUKUM
AWS-932B PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

BPID WIRELESS GROUP INC

ATM Engineering
Tim McPartland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: tmm@atmengineering.com

STAMP

ISSUE STATUS

INT	DATE	DESCRIPTION	REV
CAS	03/04/15	90% CD'S	0
CAS	04/13/15	90% CD'S	0
CAS	04/20/15	100% CD'S	1

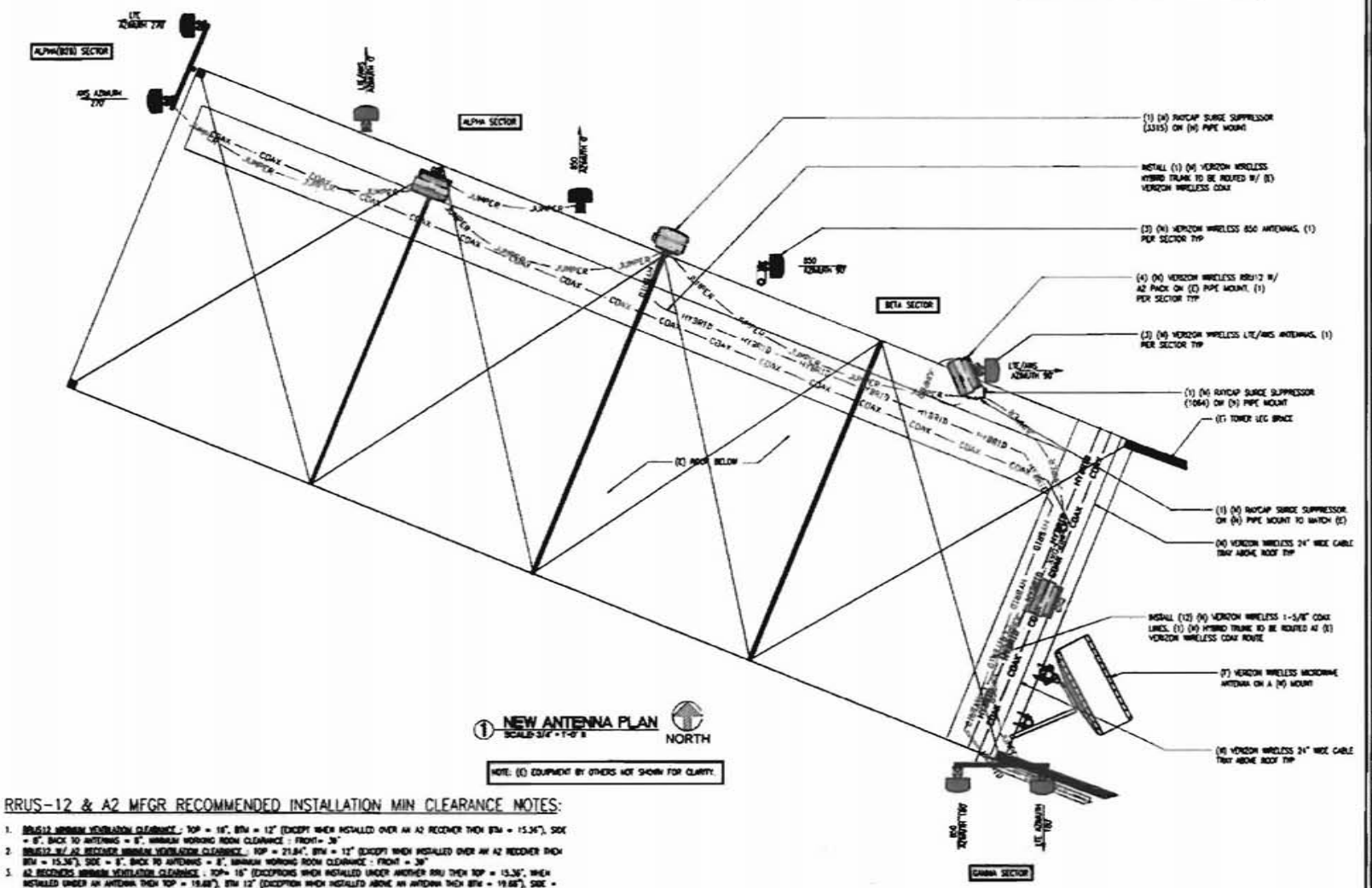
SHEET TITLE:
ANTENNA PLANS

A-2

NOTE:

1. EPIC WIRELESS HAS NOT EVALUATED NEW OR EXISTING LOADING CONDITIONS ON THIS TOWER AS DEPICTED ON THIS DRAWING. SEE STRUCTURAL ANALYSIS BY OTHERS. DRAWING SCALE IS NOT APPLICABLE IF PRINTED ON 11"X17" SHEET SIZE.

NOTE: CONTRACTOR TO VERIFY ANTENNAS & EQUIPMENT TO MEET MFGR CLEARANCES AS REQUIRED



① NEW ANTENNA PLAN
SCALE: 3/4" = 1'-0"

NORTH

NOTE: (E) EQUIPMENT BY OTHERS NOT SHOWN FOR CLARITY.

RRUS-12 & A2 MFGR RECOMMENDED INSTALLATION MIN CLEARANCE NOTES:

1. RRUS12 MINIMUM VENTILATION CLEARANCE : TOP = 16", BTM = 12" (EXCEPT WHEN INSTALLED OVER AN A2 RECEIVER THEN BTM = 15.36"), SIDE = 6", BACK TO ANTENNAS = 6", MINIMUM WORKING ROOM CLEARANCE : FRONT= 28"
2. RRUS12 W/ A2 RECEIVER MINIMUM VENTILATION CLEARANCE : TOP = 21.84", BTM = 12" (EXCEPT WHEN INSTALLED OVER AN A2 RECEIVER THEN BTM = 15.36"), SIDE = 6", BACK TO ANTENNAS = 6", MINIMUM WORKING ROOM CLEARANCE : FRONT = 28"
3. A2 RECEIVERS MINIMUM VENTILATION CLEARANCE : TOP= 16" (EXCEPTIONS WHEN INSTALLED UNDER ANOTHER RRU THEN TOP = 15.36", WHEN INSTALLED UNDER AN ANTENNA THEN TOP = 19.68"), BTM 12" (EXCEPTION WHEN INSTALLED ABOVE AN ANTENNA THEN BTM = 19.68"), SIDE = 6", BACK TO ANTENNA = 6" MINIMUM WORKING ROOM CLEARANCE : FRONT= 28"
4. INDOOR LOCATIONS TO AVOID : HEAT TRAPS, INCLUDING BUT NOT LIMITED TO, AREAS SUBJECT TO DIRECT EXPOSURE TO SUNLIGHT THROUGH WINDOWS OR SKYLIGHTS WITHOUT PROPER VENTILATION, OR INSTALLATIONS IN LOFTS OR ENCLOSURES, WHERE AIR VENTILATION DOES NOT EXIST.
5. OUTDOOR LOCATIONS TO AVOID : NEAR EXHAUST OF BUILDING VENTILATION SYSTEMS. NEAR THE EXHAUST OF THE CHIMNEY. OPPOSITE LARGE SURFACES MADE OF GLASS OR NEW CONCRETE. WHERE THERE IS NO ALTERNATIVE RRUS MAY BE INSTALLED HORIZONTALLY WITH FRONT DOWNWARDS. THIS ALTERNATIVE LIMITS THE POWER SUPPLY OPTIONS AND THE MA OUTPUT POWER AND SHOULD BE ONLY USED AS A LAST RESORT.

verizonwireless
VERIZON WIRELESS, 2785 MITCHELL DRIVE WALNUT CREEK, CA 94598

MT. AUKUM
AWS-828 PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

EPIC WIRELESS GROUP INC.

ATM Engineering
Tom McPartland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7700
Direct: 916-934-5177
Email: tmcp@atmengineering.com

STAMP

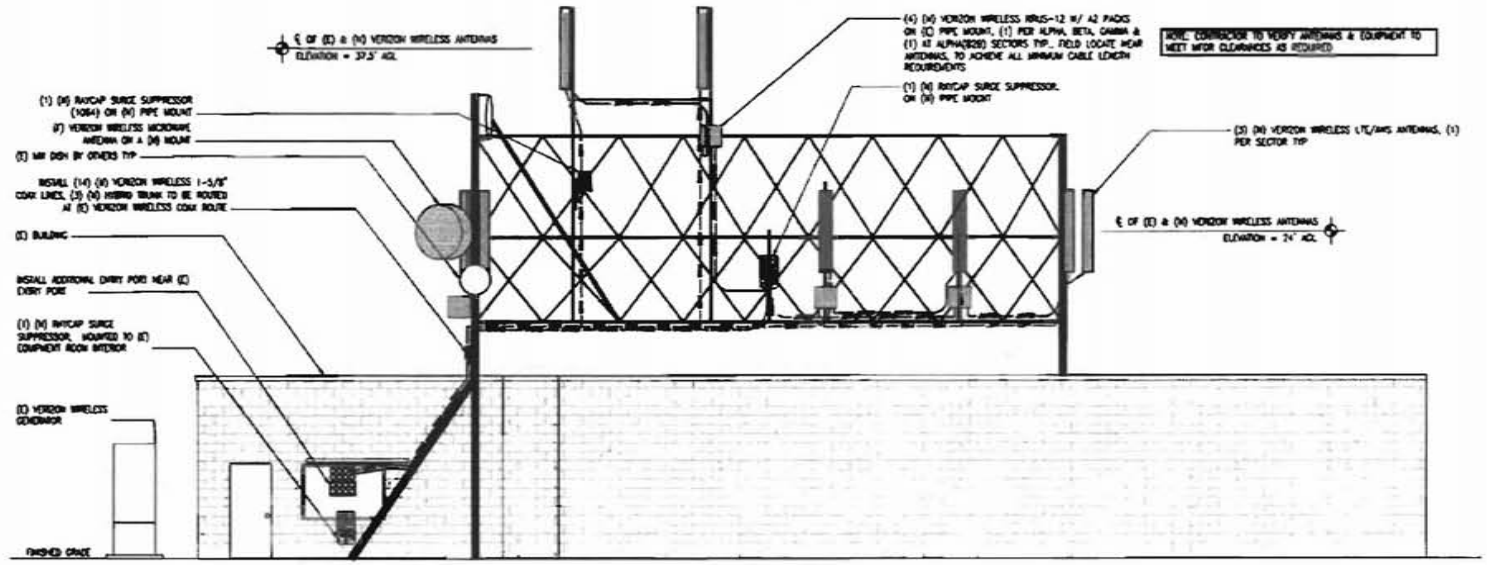
ISSUE STATUS

REV	DATE	DESCRIPTION	REV
CAS	10/30/15	RFDS	0
CAS	04/13/16	RFDS	A
CAS	04/28/16	RFDS	B

SHEET TITLE:
ANTENNA PLANS

A-3

NOTE:
1. EPIC WIRELESS HAS NOT EVALUATED NEW OR EXISTING LOADING CONDITIONS ON THIS ANTENNA SUPPORT STRUCTURE AS DEPICTED ON THIS DRAWING. SEE STRUCTURAL ANALYSIS BY OTHERS. DRAWING SCALE IS NOT APPLICABLE IF PRINTED ON 11"x17" SHEET SIZE.



① ELEVATION
SCALE: 1/4" = 1'-0"

DETAIL NOTES:

1. THESE INSTALLATION DETAILS SERVE AS A BASIC GUIDELINE FOR STANDARD INSTALLATIONS AND MAY VARY. SEE MANUFACTURER SPECIFICATION FOR MORE DETAILED INFORMATION.

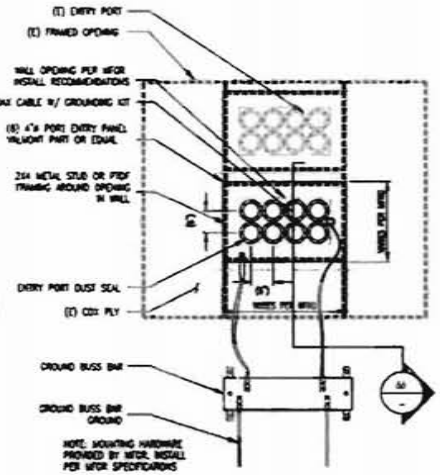
2. THE CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS PRIOR TO INSTALLATION AND CONFIRM FEASIBILITY OF ALL INSTALLS. IF SPECIAL INSTALLATION REQUIREMENTS OCCUR THAT ARE NOT COVERED IN THIS PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE ENGINEER OF RECORD(EOR) FOR A NEW DESIGN SOLUTION IN A TIMELY MATTER.

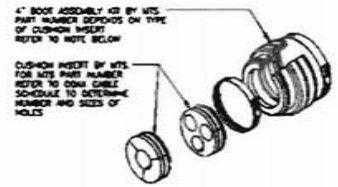
3. ALL HARDWARE TO BE STAINLESS STEEL OR GALV PER APPLICATION AND AS RECOMMENDED BY MANUFACTURER.

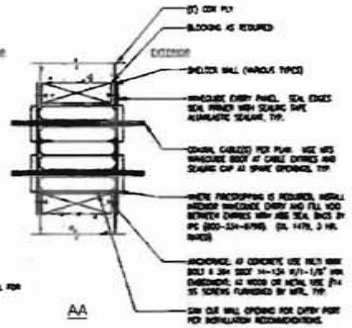
ENTRY PORT NOTES:

1. CONTRACTOR SHALL BE REQUIRED TO INVESTIGATE CONDITIONS OF THE (E) ENTRY PORT WITHIN THE (E) FRAMED OPENING, AND REPAIRE, AS NEEDED PER 2013 CBC. ADD ADDITIONAL 2X4 PT/DF OR METAL STUD SUPPORT BLOCKING AS REQUIRED AT (E) AND (N) ENTRY PORT MODIFICATION.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WEATHER PROOFING AT (N) ENTRY PORT AND ANY MODIFICATION OF THE (E) CONDITIONS. ANY FINDINGS OF WEATHER PROOFING BREACH SHALL BE REPAIRED WITH THIS MODIFICATION BY STANDARD METHODS OF FLASHING/ BITUMENS, HENRYS SEALER OR SIMILAR, CAULKING/ SILICONE OR EQUIVALENT. EXPOSED COX PLY TO BE PAINTED WITH EXTERIOR PAINT.







NOTE:
1. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ENTRY PORT INSTALL FOR CLEARANCES AGAINST INSTALL AS REQUIRED.
2. ALL EXTERIOR PENETRATIONS TO BE WEATHERPROOFED W/ SEALANT.
3. ENTERING WALL
SILICONE WEATHER SEAL BETWEEN WEATHERPROOF ENTRY AND WALL

② ENTRY PORT DETAIL
SCALE: NTS

verizonwireless
VERIZON WIRELESS, 295 NORTHERN BLVD, PLAINVILLE, NY 11803

MT. AUKUM
AWS-RDD PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

EPIC WIRELESS GROUP INC

ATM Engineering
Tim McFarland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: tmac@atmengineering.com

STAMP

ISSUE STATUS

DR	DATE	DESCRIPTION	REV
DAS	05/04/15	90% CD'S	B
DAS	05/12/15	100% CD'S	C
DAS	06/30/15	100% CD'S	C

SHEET TITLE:
ELEVATION & DETAIL

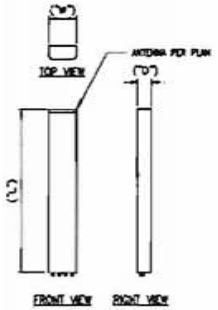
A-4

DETAIL NOTES:

1. THESE INSTALLATION DETAILS SERVE AS A BASIC GUIDELINE FOR STANDARD INSTALLATIONS AND MAY VARY. SEE MANUFACTURER SPECIFICATION FOR MORE DETAILED INFORMATION.

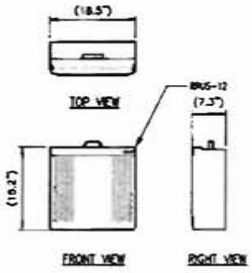
2. THE CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS PRIOR TO INSTALLATION AND CONFIRM FEASIBILITY OF ALL INSTALLS. IF SPECIAL INSTALLATION REQUIREMENTS OCCUR THAT ARE NOT COVERED IN THIS PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE ENGINEER OF RECORD(EOR) FOR A NEW DESIGN SOLUTION IN A TIMELY MATTER.

3. ALL HARDWARE TO BE STAINLESS STEEL OR GALV PER APPLICATION AND AS RECOMMENDED BY MANUFACTURER.



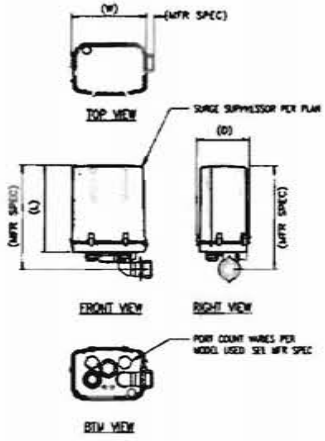
① ANTENNA DETAIL
SCALE: NTS

NOTE:
1. CONTRACTOR TO REFER TO B.O.M. AND RF BUILD SHEET FOR NUMBER AND TYPE OF ANTENNA(S) TO INSTALL. FOR ANTENNA DIMENSIONS & SPECS, SEE EQUIPMENT SPECIFICATIONS SCHEDULE SHEET A6.



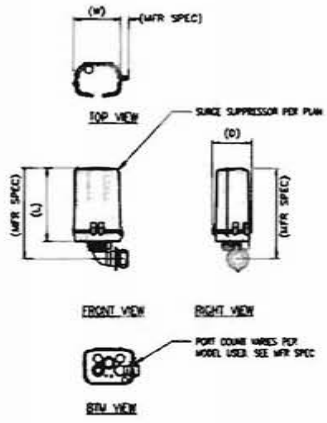
② RRUS-12 DETAIL
SCALE: 1" = 1'-0"

MAKE: ERICSSON MODEL: RRUS-12 MODULE WEIGHT: 57.3 LBS



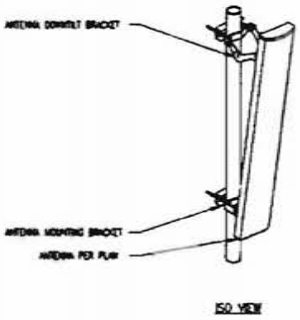
③ SURGE SUPPRESSOR DETAIL
SCALE: 1" = 1'-0"

MAKE: COMMSCOPE
MODEL: RVZDCAP-RCMDC-3315-PF-48, WEIGHT: 28.8 LBS

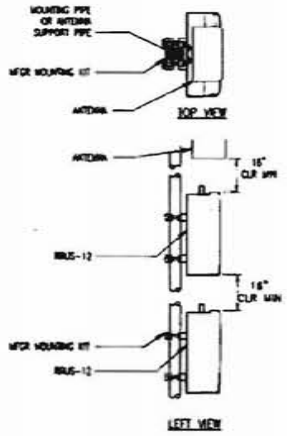


④ SURGE SUPPRESSOR DETAIL
SCALE: 1" = 1'-0"

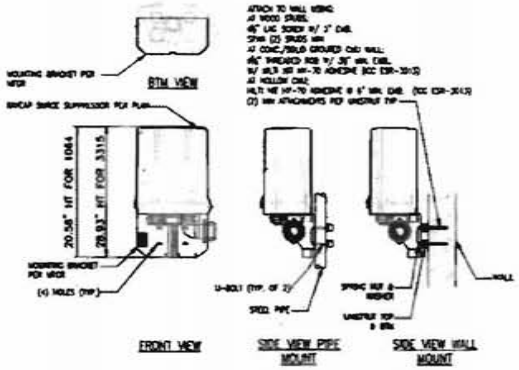
MAKE: COMMSCOPE
MODEL: RVZDCAP-RCMDC-1064-PF-48, WEIGHT: 12.1 LBS



⑤ ANTENNA MOUNTING DETAIL
SCALE: 1" = 1'-0"



⑥ RRUS-12 MOUNTING DETAIL
SCALE: 1" = 1'-0"



⑦ SURGE SUPPRESSOR MOUNTING DETAIL
SCALE: 1" = 1'-0"

verizonwireless

MT. AUKUM
AWS-4/2B PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

BP HQ WIRELESS GROUP INC

ATM Engineering
Tom McPartland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: tmm@atmengineering.com

STAMP

ISSUE STATUS

REV	DATE	DESCRIPTION	INIT
(A)	05/04/15	90% CD'S	0
(B)	05/13/15	100% CD'S	0
(C)	05/20/15	VISION CD'S	0

SHEET TITLE:
DETAILS

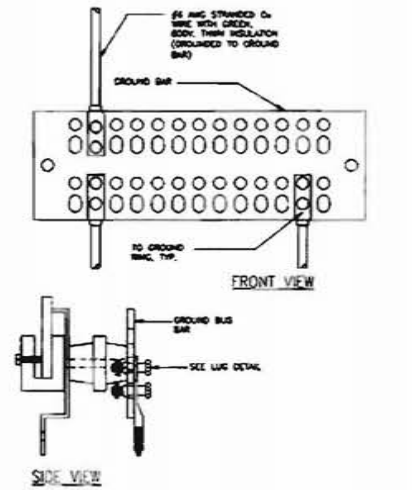
A-5

DETAIL NOTES:

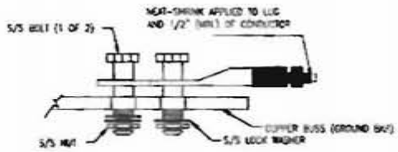
1. THESE INSTALLATION DETAILS SERVE AS A BASIC GUIDELINE FOR STANDARD INSTALLATIONS AND MAY VARY. SEE MANUFACTURER SPECIFICATION FOR MORE DETAILED INFORMATION.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS PRIOR TO INSTALLATION AND CONFIRM FEASIBILITY OF ALL INSTALLS. IF SPECIAL INSTALLATION REQUIREMENTS OCCUR THAT ARE NOT COVERED IN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE ENGINEER OF RECORD(EOR) FOR A NEW DESIGN SOLUTION IN A TIMELY MATTER.

3. ALL HARDWARE TO BE STAINLESS STEEL OR GALV PER APPLICATION AND AS RECOMMENDED BY MANUFACTURER.



① GROUND WIRE TO GROUND BAR DETAIL
NOT TO SCALE

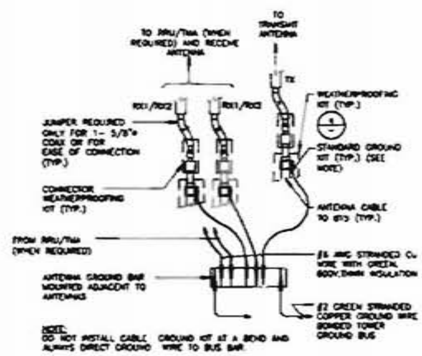


1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.

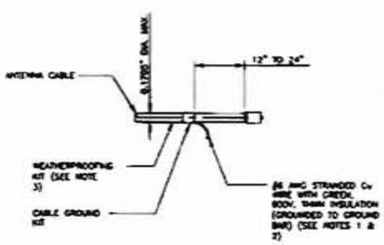
2. FOR GROUND, BOND TO STEEL ONLY: INSERT A LOCK WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH KOPR-SHIELD.

3. ALL HARDWARE TO BE 3/8" DIAMETER

② LUG DETAIL
NOT TO SCALE



③ ANTENNA CABLE GROUNDING DETAIL
NOT TO SCALE



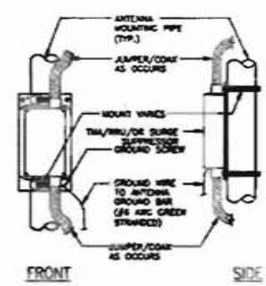
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

④ GROUNDING KIT DETAIL
NOT TO SCALE



⑤ TMA/RRU/SURGE SUPPRESSOR GROUND DETAIL
NOT TO SCALE

verizonwireless

MT. AUKUM
AWS-B2B PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

EPIC WIRELESS GROUP INC.

ATM Engineering
Tim McParland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: timm@atmengineering.com

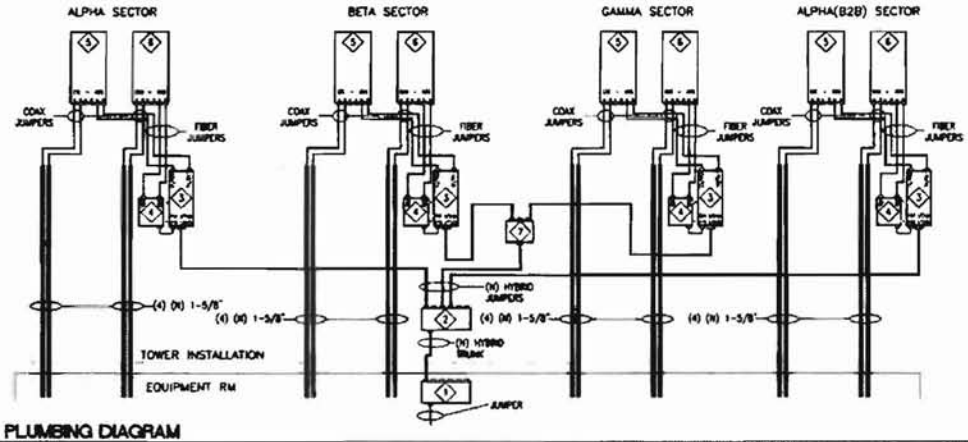
STAMP

ISSUE STATUS

INT	DATE	DESCRIPTION	REV
EAS	03/04/15	90% CD'S	0
EAS	04/13/15	90% CD'S	0
EAS	04/30/15	100% CD'S	0

SHEET TITLE:
DETAILS

A-6



① PLUMBING DIAGRAM
NO SCALE

KEY NOTES:

1. (1) (N) VERIZON WIRELESS RAYCAP SURGE SUPPRESSOR AT EQUIPMENT, NEAR ENTRY PORT
2. (1) (N) VERIZON WIRELESS RAYCAP SURGE SUPPRESSOR AT ANTENNA SUPPORT STRUCTURE
3. (3) (N) AWS RRUS-12 MOUNTED NEAR AWS ANTENNAS, (1) PER SECTOR
4. (3) (N) AWS A2 PACK MOUNTED NEAR AWS ANTENNAS, (1) PER SECTOR
5. (4) (N) LTE/AWS ANTENNAS, (1) PER SECTOR
6. (4) (N) 850/AWS ANTENNAS, (1) PER SECTOR
7. (1) (N) VERIZON WIRELESS RAYCAP SURGE SUPPRESSOR AT ANTENNA SUPPORT STRUCTURE

NOTES:

1. EPIC WIRELESS HAS NOT EVALUATED NEW OR EXISTING LOADING CONDITIONS ON THIS ANTENNA SUPPORT STRUCTURE AS DEPICTED ON THIS DRAWING. SEE STRUCTURAL ANALYSIS BY OTHERS.
2. DRAWING SCALE IS NOT APPLICABLE IF PRINTED ON 11"X17" SHEET SIZE.
3. THE CONTRACTOR SHALL VERIFY AND CHECK AGAINST MOST CURRENT RFDS DESIGN.
4. CONTRACTOR SHALL ALSO VERIFY ALL HYBRID LINE LENGTHS PRIOR TO ORDERING ANY MATERIALS
5. RET CONTROL: N/A
6. PROJECT DESCRIPTION: PER RFDS DATED: 01/08/15.

SECTOR NAME	POS	SECTOR AZIMUTH	QTY	ANTENNA TYPE	ANTENNA MFGR	UNITS-INCHES L	W	D	UNITS-LBS WEIGHT	RAD CENTER (AGL)	TMA/ DIPLEXER/ RRU (QTY/TYPE)	APPROX CABLE LENGTH	COAX CABLE (QTY/SIZE)	COMMENTS
ALPHA	1	15°	1	LTE	[illegible]	71.1	23.9	7.9	38	24'	0	80'	(2)7/8"	REMOVE (12) (E) 7/8" COAX LINES
	2		1	850	[illegible]	84.6	11.7	5.1	24	24'	0	80'	(2)7/8"	
BETA	1	90°	1	LTE	[illegible]	71.1	23.9	7.9	38	37.5'	0	80'	(2)7/8"	
	2		1	850	[illegible]	71.1	23.9	7.9	38	37.5'	0	80'	(2)7/8"	
GAMMA	1	300°	1	LTE	[illegible]	71.1	23.9	7.9	38	24'	0	80'	(2)7/8"	
	2		1	850	[illegible]	71.1	23.9	7.9	38	24'	0	80'	(2)7/8"	

NOTE:
1. CONTRACTOR TO FIELD VERIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATING, OR INSTALLING CABLES.

② (E) ANTENNA / COAX CABLE/ EQUIPMENT SCHEDULE
NO SCALE

SECTOR NAME	POS	SECTOR AZIMUTH	QTY	ANTENNA TYPE	ANTENNA MFGR	UNITS-INCHES L	W	D	UNITS-LBS WEIGHT	RAD CENTER (AGL)	TMA/ DIPLEXER/ RRU (QTY/TYPE)	APPROX CABLE LENGTH	COAX CABLE (QTY/SIZE)	COMMENTS
ALPHA	1	0°	1	LTE/AWS	ANDREW	72	11.9	7.1	40.6	24'	(1) RR8832/B2	80'	(2)1-5/8"	INSTALL (14) (N) 1-5/8" COAX LINES AND ADD (1) (N) HYBRID TRUNK.
	2		1	850/AWS	ANDREW	72	11.9	7.1	40.6	24'	-	80'	(2)1-5/8"	
BETA	1	90°	1	LTE/AWS	ANDREW	72	11.9	7.1	40.6	37.5'	(1) RR8832/B2	80'	(2)1-5/8"	
	2		1	850/AWS	ANDREW	72	11.9	7.1	40.6	37.5'	-	80'	(2)1-5/8"	
GAMMA	1	180°	1	LTE/AWS	ANDREW	72	11.9	7.1	40.6	24'	(1) RR8832/B2	80'	(2)1-5/8"	
	2		1	850/AWS	ANDREW	72	11.9	7.1	40.6	24'	-	80'	(2)1-5/8"	
ALPHA(B2B)	1	270	2	LTE/AWS	ANDREW	72	11.9	7.1	40.6	24'	(1) RR8832/B2	80'	(2)1-5/8"	

NOTE:
1. CONTRACTOR TO FIELD VERIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATING, OR INSTALLING CABLES. * SUBJECT TO FINAL VERIFICATION BY RF ENGINEER

S.O.W.	NEW EQUIPMENT									
SECTOR/ LOCATION	POS	EQUIP QTY	APPLIED TECH	EQUIPMENT MFGR	UNITS-INCHES L	W	D	UNITS-LBS WEIGHT	COMMENTS
ALPHA/BETA/GAMMA/ALPHA(B2B)	< 12' OF AWS ANT	4	AWS/LTE	ERICSSON RRUS12/A2	20.4	18.5	10.8	79.5	INSTALL ALL EQUIPMENT PER MFGR SPECIFICATION TO ACHIEVE ALL RECOMMENDED CLEARANCES
TOWER	< 15' OF RRUS12	1	N/A	COMMSCOPE MDU6 RAYCAP RCMDC-3315-PF-48	19.18	15.73	9.25	26.9	
AT EQUIPMENT	FIELD VERIFY	1	N/A	COMMSCOPE MDU6 RAYCAP RCMDC-3315-PF-48	19.18	15.73	9.25	26.9	
TOWER	FIELD VERIFY	1	N/A	COMMSCOPE MDU6 RAYCAP RCMDC-1064-PF-48	15.85	10.15	8.15	12.1	

③ (N) ANTENNA / COAX CABLE/ EQUIPMENT SCHEDULE
NO SCALE

verizonwireless
VERIZON WIRELESS, 2785 MITCHELL DRIVE WALNUT CREEK, CA 94598

MT. AUKUM
AWS- B2B PROJECT ID: 20151199230
PS LOCATION #: 160183
6780 TOWER RD.
SOMERSET, CA 95684

EPIC WIRELESS GROUP INC.

ATM Engineering
Tim McPartland, SE
2525 East Bidwell Street
Folsom, CA 95630
Phone: 916-859-7300
Direct: 916-934-5177
Email: tmm@atmengineering.com

STAMP

ISSUE STATUS

INIT	DATE	DESCRIPTION	REV
EAS	03/04/15	90% CD'S	0
EAS	04/13/15	95% CD'S	0
EAS	04/30/15	100% CD'S	0

SHEET TITLE:
EQUIPMENT / CABLE SCHEDULES AND PLUMBING DIAGRAM

A-7

WATERFORD
COMPLIANCE...FROM START TO SIGNAL

Radio Frequency Emissions Compliance Report For Verizon Wireless

Site Name:	**Mount Aukum**	**Site Structure Type:**	**Rooftop**
Address:	**6780 Tower Road**	**Latitude:**	**38.573986**
	Somerset, CA 95684	**Longitude:**	**-120.726864**
Report Date:	**July 30, 2015**	**Project:**	**LM43 Modification**

General Summary

Verizon Wireless has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed modification of the Mount Aukum site located at 6780 Tower Road, Somerset, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by Verizon Wireless.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure.

	Limits for General Population/ Uncontrolled Exposure		***Limits for Occupational/ Controlled Exposure***	
Frequency	**Power Density**	**Averaging Time**	**Power Density**	**Averaging Time**
(MHz)	**(mW/cm^2)**	**(minutes)**	**(mW/cm^2)**	**(minutes)**
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1	30	5	6

Waterford Consultants, LLC • 201 Loudoun Street Southeast Suite 300 • Leesburg, Virginia 20175 • 703.596.1022

Exhibit E

S 64-0012-R-3

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

Verizon Wireless proposes to replace six (6) antennas, install two (2) new antennas and install four (4) 2100 MHz Remote Radio Head units with A2 Backpacks. The antennas are mounted on antenna support structures 12 and 26 feet above the main roof level antennas oriented toward 0, 90, 180 and 270 degrees. Verizon Wireless operates an 11 GHz microwave mounted at 12 above the main roof level and oriented toward 65 degrees. From this site, Verizon Wireless will enhance voice and data services to surrounding areas in licensed 700, 850 and 2100 MHz bands. The Effective Radiated Power (ERP) in any direction will not exceed 8,639 Watts. No co-located antennas are known to be operating at this site.

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serve to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all operations is 5.234% of the FCC General Population limits. For accessible areas at the roof level, the maximum predicted power density level resulting from all operations is 16.1913% of the FCC Occupational limits (80.9565% of the FCC General Population limits). The Verizon Wireless operation proposed herein will not expose members of the General Public to hazardous levels of RF energy at accessible areas on the ground or on the roof.

Waterford Consultants, LLC recommends posting contact information and RF Guidelines signage at the roof access point that informs personnel entering the site of basic precautions to be followed when working around antennas. These recommendations are depicted in Figure 1. Any work activity in front of transmitting antennas should be coordinated with Verizon Wireless.

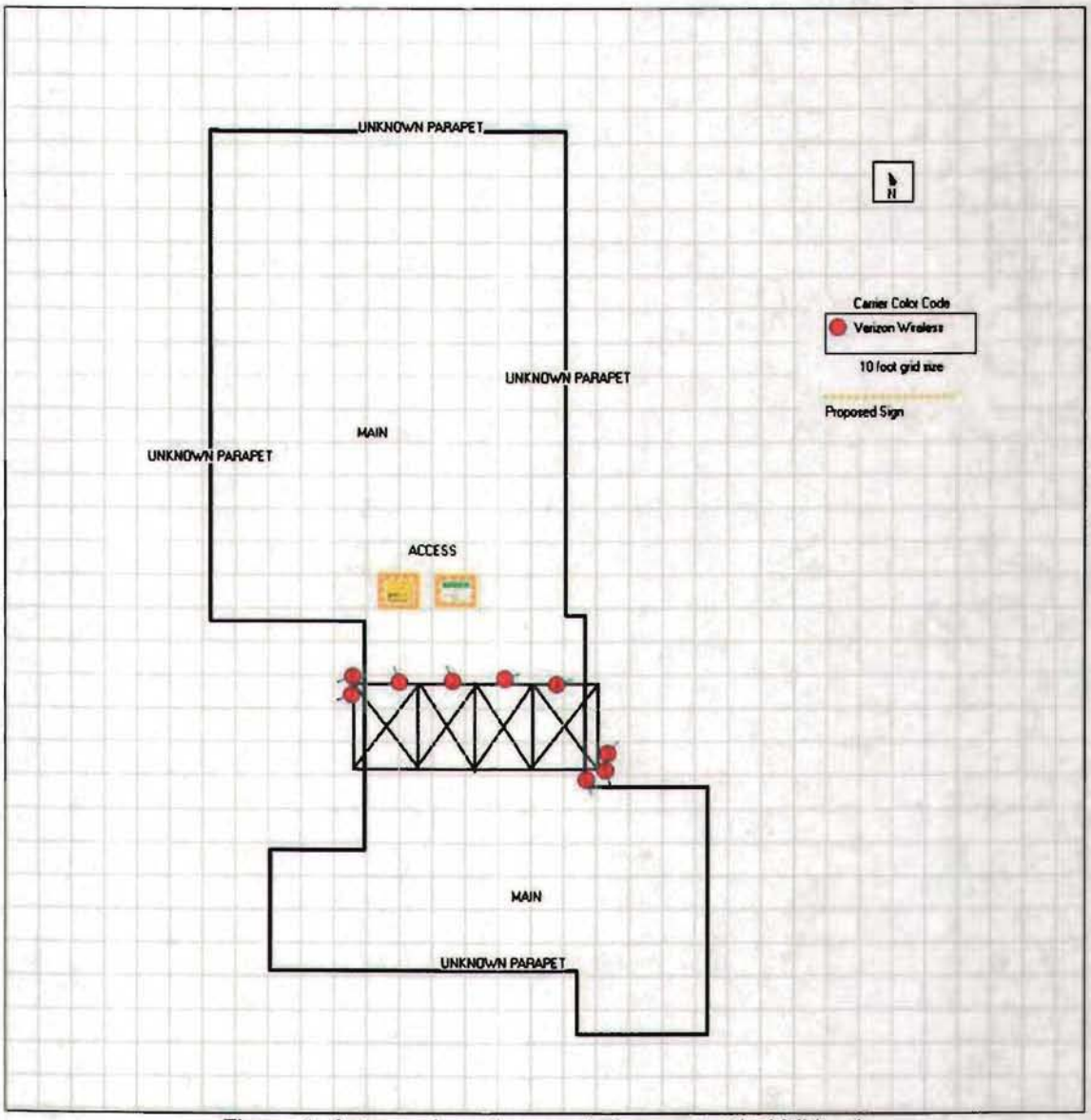


Figure 1: Antenna Locations and Recommended Mitigation

Waterford Consultants, LLC • 201 Loudoun Street Southeast Suite 300 • Leesburg, Virginia 20175 • 703.596.1022

Compliance Statement

Based on information provided by Verizon Wireless, predictive modeling and the mitigation action to be implemented by Verizon Wireless, the installation proposed by Verizon Wireless at 6780 Tower Road, Somerset, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310.

Certification

I, Frederick T. Herb, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

Frederick T. Herb, P.E.
Registered Professional Engineer, License #35076
July 30, 2015