

# Verizon Wireless

PSL NUMBER: 248125

SITE ADDRESS: 2518 PFEIFFER LANE  
PINOLE, CA 94564



4255 PARK RD.  
BENICIA, CA 94510

**verizon**  
wireless  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA  
94598 TEL: (925) 904-3533  
FAX: (925) 904-3513

**SITE ADDRESS:**  
2518 PFEIFFER LANE  
PINOLE, CA 94564

**JURISDICTION:**  
CITY OF PINOLE

**PROPERTY OWNER:**  
MICHAEL & DEBRA EVANS  
2318 PFEIFFER LANE  
PINOLE, CA 94564  
PHONE: (510) 301-1134

**APN:**  
360-131-006-4

**ELEVATION (NAVD89):**  
277.2' AMSL

**PROJECT ARCHITECT:**  
DIAMOND ENGINEERING SERVICES  
4255 PARK RD.  
BENICIA, CA 94510  
CONTACT: BRUCE LYON, ARCHITECT  
PHONE: (925) 352-2264

**APPLICANT:**  
 Verizon Wireless  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA 94598

**PROJECT ENGINEER:**  
DIAMOND ENGINEERING SERVICES  
4255 PARK RD.  
BENICIA, CA 94510  
CONTACT: BRUCE LYON, ARCHITECT  
PHONE: (925) 304-3351

**CONSTRUCTION MANAGER:**  
NSA WIRELESS  
2010 CROW CANYON PL., STE. #335  
SAN RAMON, CA 94583  
CONTACT: SCOTT COVAN  
PHONE: (925) 244-1890 Ext.237

**ZONING / LEASING:**  
NSA WIRELESS  
2010 CROW CANYON PL., STE. #335  
SAN RAMON, CA 94583  
CONTACT: PAMELA NOBEL  
PHONE: (707) 486-7232

## SITE INFORMATION

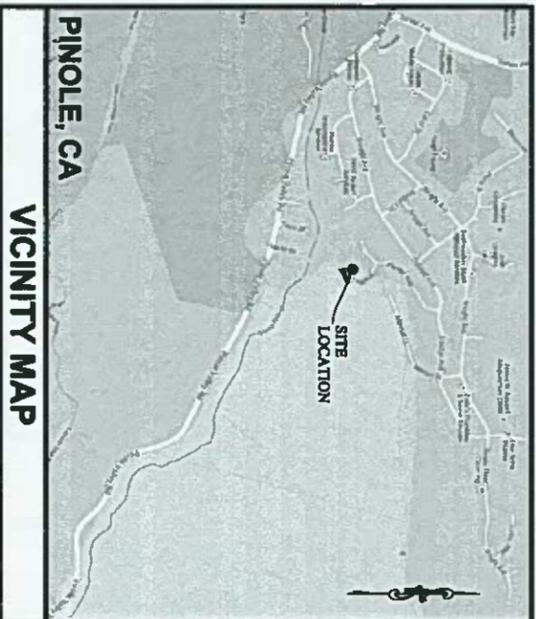
**ZONING:** SR  
**ZONING CLASSIFICATION:** SUBURBAN RESIDENTIAL  
**BUILDING TYPE:** V-B  
**OCCUPANCY:** S-2, UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY  
**FIRE SPRINKLES:** A NEW AUTOMATED FIRE SUPPRESSION SYSTEM (TIRE SPRINKLERS) IS REQUIRED.  
**EQUIPMENT LEASE AREA:** 560 SQ. FT.  
**TOTAL LEASE AREA:** 560 SQ. FT.

## BUILDING DATA

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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST APPLICABLE VERSION OF THESE CODES.

- 2013 CALIFORNIA BUILDING CODE (CBC)
- WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:  
CALIFORNIA FIRE CODE  
CALIFORNIA BUILDING CODE  
CALIFORNIA MECHANICAL CODE  
CALIFORNIA PLUMBING CODE  
CALIFORNIA ELECTRICAL CODE  
CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE (CES) 2013 EDITION REVISY JULY 2013, AND ALL APPLICABLE LOCAL & STATE ORDINANCES, CODES AND REGULATIONS AND 2013 CALIFORNIA STATE STANDARDS CODE AMENDMENTS.
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES
- NFPA 76

## BUILDING CODES



PINOLE, CA

## VICINITY MAP

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2013 CALIFORNIA BUILDING CODE.

## ADA COMPLIANCE

## SIGNATURES

VERIZON WIRELESS EQUIPMENT ENGINEER	VERIZON WIRELESS REAL-ESTATE
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____
VERIZON WIRELESS CONSTRUCTION:	VERIZON WIRELESS RF ENGINEER:
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____
PROPERTY OWNER:	AGENT - LEASING:
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____
AGENT - CONSTRUCTION:	AGENT - ZONING:
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____

## SIGNATURE OF APPROVAL

- INSTALL NEW VERIZON WIRELESS FAUX WATER TOWER.
- INSTALL NEW 27'-5" x 19'-5" VERIZON WIRELESS REDWOOD FENCE EQUIPMENT COMPOUND & NEW CONCRETE EQUIPMENT PAD.
- INSTALL NEW VERIZON WIRELESS 30KW GENERATOR WITH 132 GALLON, UL 142 FIRE RATED DIESEL FUEL TANK.
- INSTALL NEW VERIZON WIRELESS EQUIPMENT CABINETS.
- INSTALL (2) GPS ANTENNAS INSIDE EQUIPMENT COMPOUND.
- INSTALL NEW VERIZON WIRELESS GENERATOR ON NEW CONCRETE PAD.
- INSTALL (9) NEW VERIZON WIRELESS PANEL ANTENNAS & (9) NEW RUS INSIDE NEW FIRE WATER TANK.
- INSTALL (2) NEW VERIZON WIRELESS RAYCAPS, (2) INSIDE THE REDWOOD FENCE EQUIPMENT COMPOUND & (2) INSIDE THE NEW FIRE WATER TANK.

## PROJECT DESCRIPTION

## SHEET NO

## DESCRIPTION

SHEET NO	DESCRIPTION
G1	PROJECT INFORMATION & SHEET INDEX
G2	NOTES AND MATERIALS BOARD
C-1	SITE SURVEY
C-2	SITE SURVEY
GR-1	PRELIMINARY GRADING AND STORMWATER CONTROL PLAN
GR-2	PRELIMINARY GRADING AND STORMWATER CONTROL ENLARGED PLAN
EC-1	EROSION CONTROL PLAN
EC01	EROSION CONTROL DETAILS
EC02	EROSION CONTROL DETAILS
A1	SITE PLAN
A2	ENLARGED SITE PLAN
A3	EQUIPMENT PLAN
A4	ANTENNA PLAN
A5	NORTH ELEVATION
A6	EAST ELEVATION
A7	SOUTH ELEVATION
A8	WEST ELEVATION
A9	EQUIPMENT LAYOUT, LEGEND AND NOTES
AD1	ANTENNA, RRU & RAYCAP DETAILS
AD2	ANTENNA COLOR CODES
L-1	LANDSCAPING PLAN

## PROJECT TEAM

**verizon** wireless  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA 94598  
TEL: (925) 904-3533  
FAX: (925) 904-3513

**NSA Wireless, Inc.**  
2010 CROW CANYON PL., STE. #335  
SAN RAMON, CA 94583  
(925) 244-1890

DIAMOND ENGINEERING SERVICES

## SHEET INDEX

VERIZON WIRELESS  
PSL #248125  
2518 PFEIFFER LANE  
PINOLE, CA 94564

## PROJECT INFORMATION & SHEET INDEX

### REVISIONS

NO.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
Q	FOR REVIEW	02-11-2015
R	FOR REVIEW	02-25-2015
S	FOR REVIEW	03-19-2015
T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

Job No.: N14014  
Draw/Check By: BLL / ECU

**G1**

**SECURITY AND CRIME PREVENTION MEASURES**

1. THE FOLLOWING SECURITY MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION:
  - a. PROVIDE TEMPORARY CONSTRUCTION FENCING AROUND PROPOSED NEW VERIZON WIRELESS EQUIPMENT COMPOUND CONSTRUCTION AREA.
  - b. STORE CONSTRUCTION MATERIALS IN APPROVED LOCKED CONTAINERS OR INSIDE A LOCKED SECURITY FENCE.
  - c. PROVIDE A TEMPORARY LIGHT ON THE TEMPORARY POWER POLE.
2. POST CONSTRUCTION SECURITY MEASURES:
  - a. CONSTRUCT WOOD FENCE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
  - b. PROVIDE GATES WITH LOCK, CANE BOLT, AND SECURITY HARDWARE AS INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS.
  - c. PROVIDE EQUIPMENT COMPOUND LIGHTING PER THE APPROVED CONSTRUCTION DRAWINGS.
  - d. NO GLASS IS PROPOSED FOR USE ON THIS PROJECT.

**STATEMENTS**

1. OPERATION OF THE PROPOSED NEW VERIZON WIRELESS FACILITY SHALL BE OPERATED IN ACCORDANCE WITH APPLICABLE FCC STANDARDS AND NOT EXCEED APPLICABLE FCC LIMITS.
2. PRIMARY POWER: A NEW 200AMP POLE METER SERVICE IS PROPOSED FOR THE NEW VERIZON WIRELESS FACILITY.
3. BACK-UP POWER: A 30KW DIESEL GENERATOR UL 142 LISTED FIVE RATED 132 GALLON DIESEL FUEL TANK SHALL PROVIDE BACKUP POWER IN THE EVENT OF A POWER OUTAGE. THE BACKUP POWER SYSTEM SHALL BE CONNECT TO AN AUTOMATIC TRANSFER SWITCH AND PROVIDE AC POWER TO THE ELECTRICAL DISTRIBUTION PANEL SERVING THE EQUIPMENT. CHARGING POWER FOR THE BACKUP BATTERY CABINET, AND COMPOUND AREA LIGHTING. A PROPOSED NEW VERIZON WIRELESS BACK UP BATTERY CABINET EQUIPPED WITH VALVE REGULATED LEAD ACID (VRLA) BATTERIES PROVIDES DC POWER TO THE RADIO EQUIPMENT FOR A LIMITED TIME IN THE EVENT OF A POWER OUTAGE.

**Diamond Engineering Services**



4255 Park Rd.  
Benicia, CA 94715  
707-324-1381

**Material and Color Sample Board**

Fence  
Color: Natural Redwood  
Material: Redwood



Water Tower  
Material: Water Tank Panels (undercoat paint)  
Color Name: French Rose  
Color Number: SW 6039  
Manufacturer: Sherwin Williams



Water Tower  
Material: Water Tank Panels  
Color Name: Firwood  
Color Number: SW 6328  
Manufacturer: Sherwin Williams



**Diamond Engineering Services**

Water Tower  
Material: Al Steel  
Color Name: Olive Green  
Color Number: SW2731  
Manufacturer: Sherwin Williams



CHU Wall  
Material: CHU  
Manufacturer: Standard Tan R346  
Color: Spill free



Covered Roof  
Material: Bertrige Metal Kyme 600 finish  
Color: 22 Gauge Standard Medium Bronze



028M14014 PINOLE PSL 248125 Color and Material Sample Board, REV. A, February 24, 2015

028M14014 PINOLE PSL 248125 Color and Material Sample Board, REV. A, February 24, 2015

**1 COLOR AND MATERIALS BOARD**  
NOTE: FOR REFERENCE ONLY. ACTUAL BOARD SHALL BE FURNISHED IN FULL COLOR

SCALE: NONE

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PINOLE, CA 94564

**NOTES AND MATERIALS BOARD**

**verizon**  
wireless  
2785 MITCHELL DRIVE  
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FAX: (925) 904-3513

**DES**  
DIAMOND ENGINEERING SERVICES  
4255 PARK RD.  
BENICIA, CA 94510

Job No.: N14014  
Draw/Check By: BILL / EJU

**G2**

**NOTES**

OWNER(S): MICHAEL EVANS AND DEBRA EVANS, HUSBAND AND WIFE AS JOINT TENANTS  
 APN: 360-131-036-4

THE DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INTERFERE THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENT BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

THE EASEMENTS (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN PLOTTED BASED SOLELY ON INFORMATION PROVIDED BY THE SURVEYOR. THE SURVEYOR'S TITLE REPORT, FILE NUMBER 044008-1279361-1 DATED MARCH 12, 2014, WITHIN SAID TITLE REPORT THERE ARE EIGHT (8) EXCEPTIONS LISTED, ONE OF WHICH IS EASEMENT AND CAN BE PLOTTED.

THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL ENERGY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 06013C, PANEL NO. 0235Z DATED JUNE 16, 2009 SHOWS THAT THE LOCATION OF THIS SITE FALLS WITHIN ZONE X, WHICH ARE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

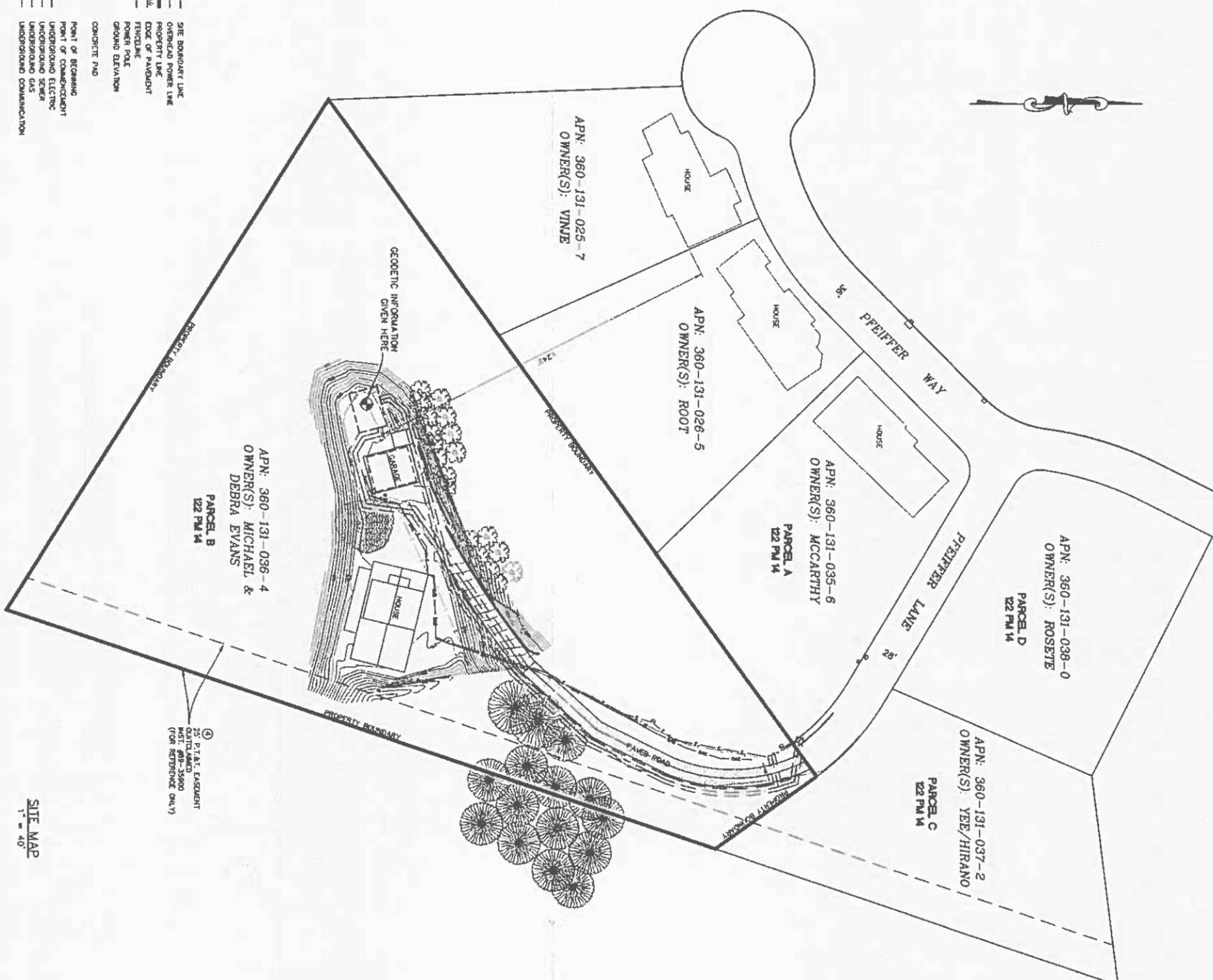
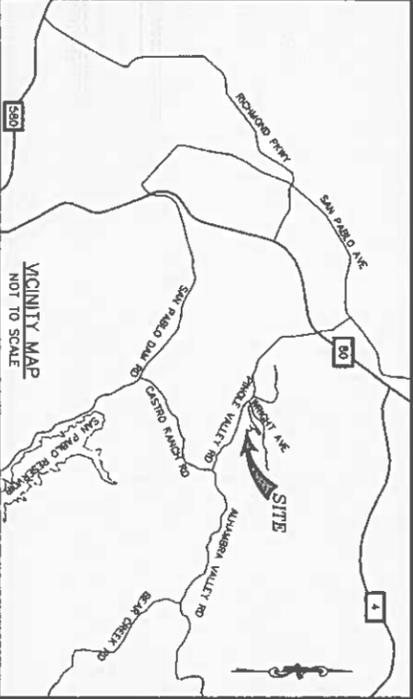
**LESSOR'S PROPERTY LEGAL DESCRIPTION PER TITLE REPORT:**

REAL PROPERTY IN THE CITY OF PINOLE, COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL 8, AS SHOWN ON THE PARCEL MAP FILED APRIL 11, 1986 IN BOOK 122 OF PARCEL MAPS, PAGE 14, CONTRA COSTA COUNTY RECORDS.  
 APN: 360-131-036-4

**EASEMENT(S) PER TITLE REPORT:**

4. AN EASEMENT SHOWN OR DEDICATED ON THE MAP FILED OR RECORDED AUGUST 22, 1980 AS BOOK 245, PAGE 16 SAID MAP WAS RE-RECORDED APRIL 8, 1986 IN BOOK 300 OF MAPS PAGE 7, FOR: 25 FOOT PI&T CO. EASEMENT AND INCIDENTAL PURPOSES.  
 THE EFFECT OF A DOCUMENT ENTITLED "QUITCLAIM OF EASEMENT", RECORDED FEBRUARY 27, 1989 AS INSTRUMENT NO. 89-35899 OF OFFICIAL RECORDS.  
 THE EFFECT OF A DOCUMENT ENTITLED "QUITCLAIM OF EASEMENT", RECORDED FEBRUARY 27, 1989 AS INSTRUMENT NO. 89-35900 OF OFFICIAL RECORDS.  
 AS DISTINGUISHED EASEMENT PLOTTED, AS SHOWN HEREON, FOR REFERENCE ONLY \*\*



**LEGEND**

---	SITE BOUNDARY LINE
---	OVERHEAD POWER LINE
---	PROPERTY LINE
---	PROPERTY OF ANCESTOR
---	FUNCTIONAL
---	POWER POLE
---	GROUND ELEVATION
---	CONCRETE PAD
---	POINT OF BEGINNING
---	POINT OF COMMENCEMENT
---	UNDERGROUND ELECTRIC
---	UNDERGROUND SEWER
---	UNDERGROUND GAS
---	UNDERGROUND COMMUNICATION

**SITE MAP**  
 1" = 40'

**NSA Wireless, Inc.**  
 2818 Cerrito Canyon Place, Ste. 333  
 San Ramon, CA 94583  
 Office: 925-544-1800 Fax: 925-533-0672

**SMITHCO**  
 SURVEYING & ENGINEERING  
 P.O. BOX 8124, BAYSHIREFIELD, CA 94598  
 PHONE: (925) 391-1177 FAX: (925) 391-1318

ALL DRAWINGS AND WRITTEN MATERIAL, CONTAINED HEREIN ARE THE PROPERTY OF THE ARCHITECT/ENGINEER/SURVEYOR AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER/SURVEYOR.  
 SPACE RESERVED FOR PROFESSIONAL SEAL

**PRELIMINARY**

NO.	REVISION/DESCRIPTION	BY	DATE
1	PRELIM. ISSUE	DL	04/09/14
2	US UTILITIES	SL	04/17/14
3	US UTILITIES	SL	04/27/14
4	US UTILITIES	DL	04/23/14
5	LEASE & ROUTES	DL	06/19/14
6	LEASE & ROUTES	DL	07/09/14
7	REV. SITE NAME	DL	09/29/14

THIS DRAWING IS CONSIDERED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PROVIDED SOLELY FOR THE USE BY THE OWNER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER/SURVEYOR.

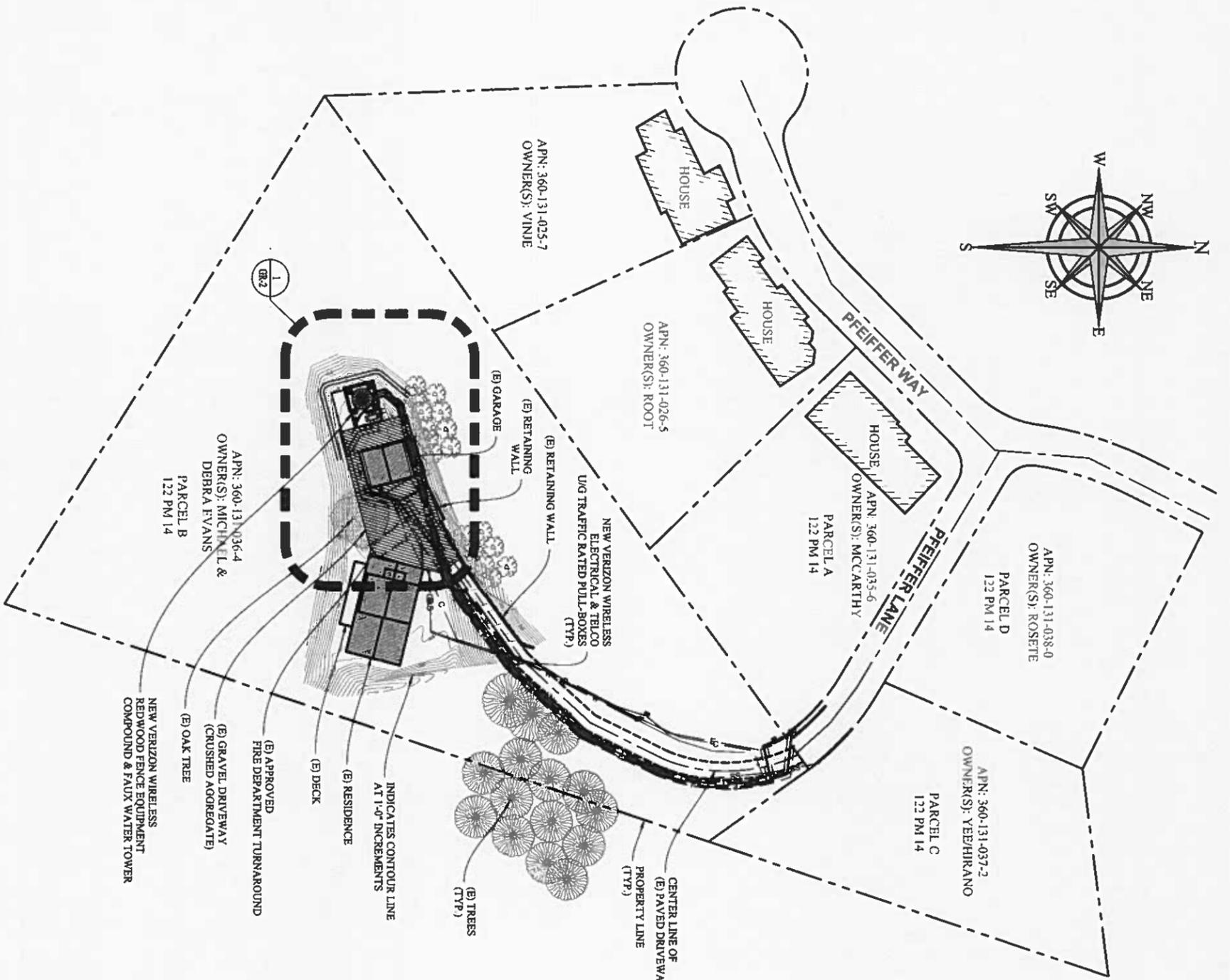
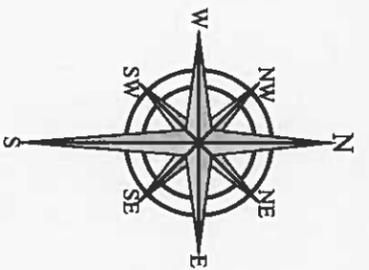
DRAWN BY: DL  
 CHECKED BY: DA  
 DATE DRAWN: 04/09/14  
 SMITHCO JOB #: 56-598

**SITE NAME**  
 PSL #248125

**SITE ADDRESS**  
 2518 PFEIFFER LANE  
 PINOLE, CA 94564  
 CONTRA COSTA COUNTY

**SHEET TITLE**  
 SITE SURVEY  
 FOR EVALUATION ONLY  
 SHEET  
 C-1





**1 PRELIMINARY GRADING AND STORMWATER CONTROL PLAN**

SCALE: 1"=40'-0"

**GRADING NOTES**

- A. ALL GRADING, SITE PREPARATION, PLACING AND COMPACTION OF FILL, SHALL BE DONE IN ACCORDANCE WITH CONTRA COSTA COUNTY GRADING ORDINANCE.
- B. ANY DEVIATION FROM THE APPROVED PLAN REQUIRES APPROVAL OF THE COUNTY OF CONTRA COSTA AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS.
- C. ALL CUT SLOPES SHALL BE ROUNDED TO MEET EXISTING GRADES AND BLEND WITH SURROUNDING TOPOGRAPHY.
- D. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT ALL TIMES DURING THE GRADING OPERATION.
- E. SILT AND EROSION CONTROL MEASURES ARE REQUIRED FOR WORK DURING THE RAINY SEASON. (OCTOBER 15 THROUGH APRIL 15)
- F. IF THERE ARE ANY EXISTING WATER WELLS ON THE PROPERTY, THE CONTRACTOR SHALL CONTACT THE COUNTY DEPARTMENT OF HEALTH SERVICES, ENVIRONMENTAL HEALTH DIVISION, PRIOR TO ANY GRADING IN THE IMMEDIATE VICINITY OF THESE WELLS.
- G. NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THIS PLAN. ALL TREES CONFLICTING WITH GRADING, UTILITIES OR OTHER IMPROVEMENTS, SO AS TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED, PROPERLY TREATED AND SEALED.
- H. TREES TO BE SAVED SHALL BE FLAGGED AND MARKED PRIOR TO ANY CLEARING OR ANY STRIPPING WORK AND PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING.
- I. HAULING OF ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE, EXCAVATED FROM THE SITE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE WITHOUT PRIOR APPROVAL FROM THE COUNTY IS RESTRICTED.
- J. MUD TRACKED ONTO STREETS OR ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT DRAINAGE OF THE SITE AND CONTROL OF SILTATION.
- L. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ADJACENT WATER COURSES AND PUBLIC AND PRIVATE PROPERTY FROM DAMAGE BY EROSION, FLOODING AND DEPOSITION OF MUD OR DEBRIS ORIGINATING FROM THE SITE.

**ESTIMATED EARTHWORK QUANTITIES**

NEW WORK DESCRIPTION	IMPERVIOUS SURFACE	PERVIOUS SURFACE
CELL SITE COMPOUND	567 sf	
FENCE OUTSIDE COMPOUND	22 sf	
UTILITY PULL BOXES	64 sf	
350 (LP) OF 2'-0" WIDE TRENCH		700 sf
110 (LP) OF 1'-0" WIDE TRENCH		110 sf
TOTAL	653 sf	810 sf

**C.3 COMPLIANCE**

- A. REFER TO THE ESTIMATED EARTHWORK QUANTITIES TABLE ON THIS SHEET WHICH DEMONSTRATES THAT THE QUANTITY OF IMPERVIOUS SURFACE ADDED DOES NOT EXCEED 2,500 SQUARE FEET.
- B. PRELIMINARY GRADING, DRAINAGE, AND EROSION CONTROL PLANS DEMONSTRATE COMPLIANCE WITH GRADING DRAINAGE AND EROSION CONTROL PER MUNICIPAL CODE.

**REVISIONS**

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Job No.: N14014  
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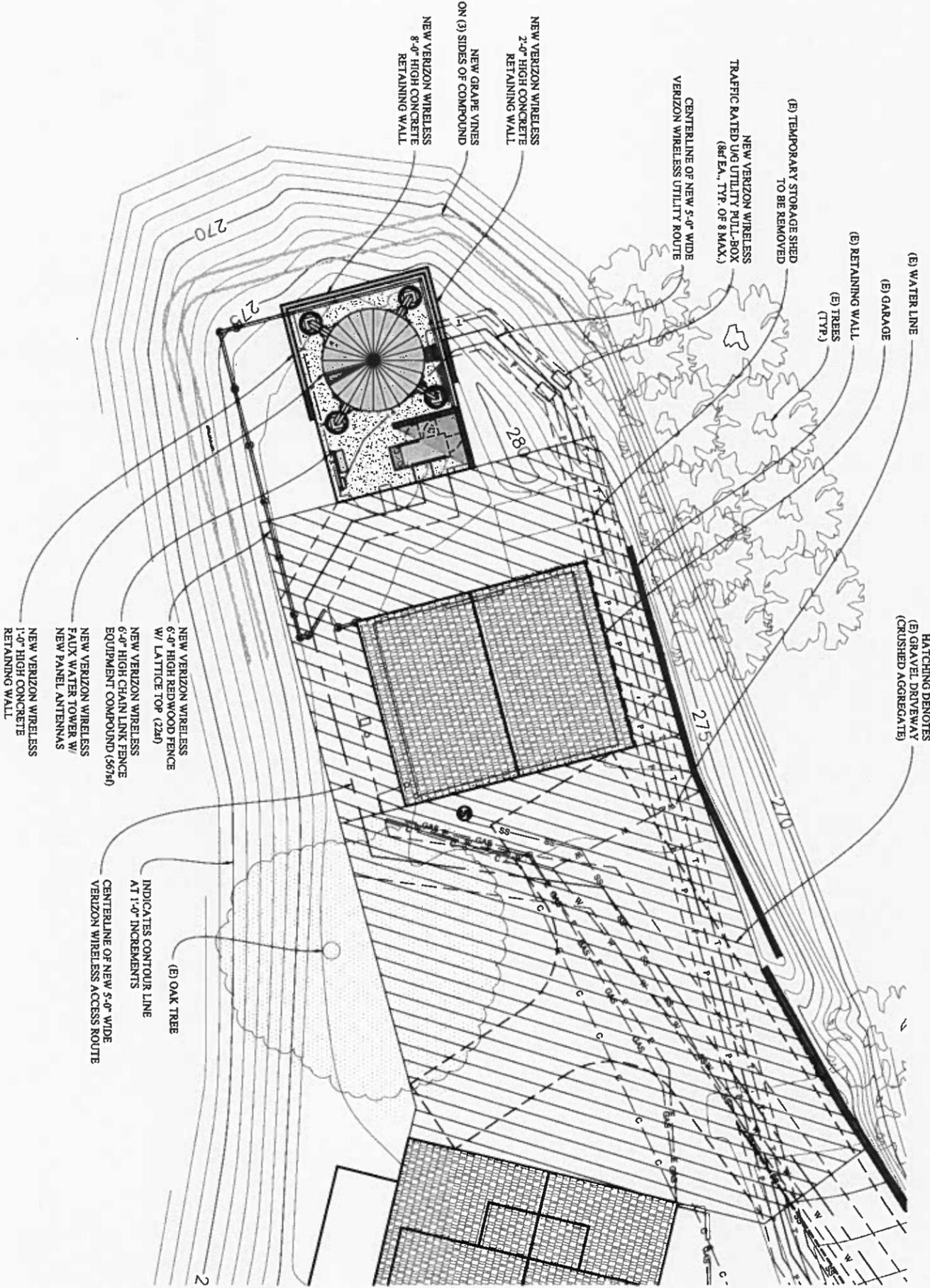
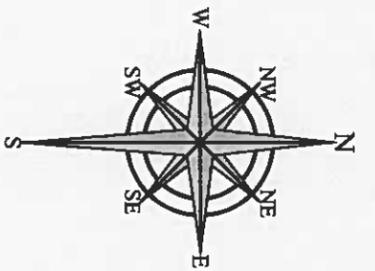
**VERIZON WIRELESS**  
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 2518 PFEIFFER LANE  
 PINOLE, CA 94564

**PRELIMINARY GRADING AND STORMWATER CONTROL PLAN**

2785 MITCHELL DRIVE  
 WALNUT CREEK, CA  
 94598 TEL: (925) 904-3633  
 FAX: (925) 904-3613

4256 PARK RD.  
 BENICIA, CA 94510

**GR-1**



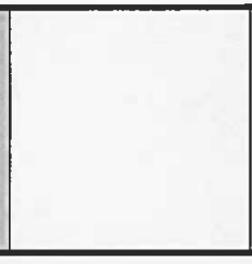
1 PRELIMINARY GRADING AND STORMWATER CONTROL ENLARGED PLAN

SCALE: 1/8"=1'-0"

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**PRELIMINARY GRADING AND STORMWATER CONTROL ENLARGED PLAN**



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 wireless  
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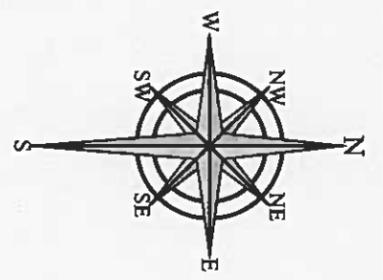
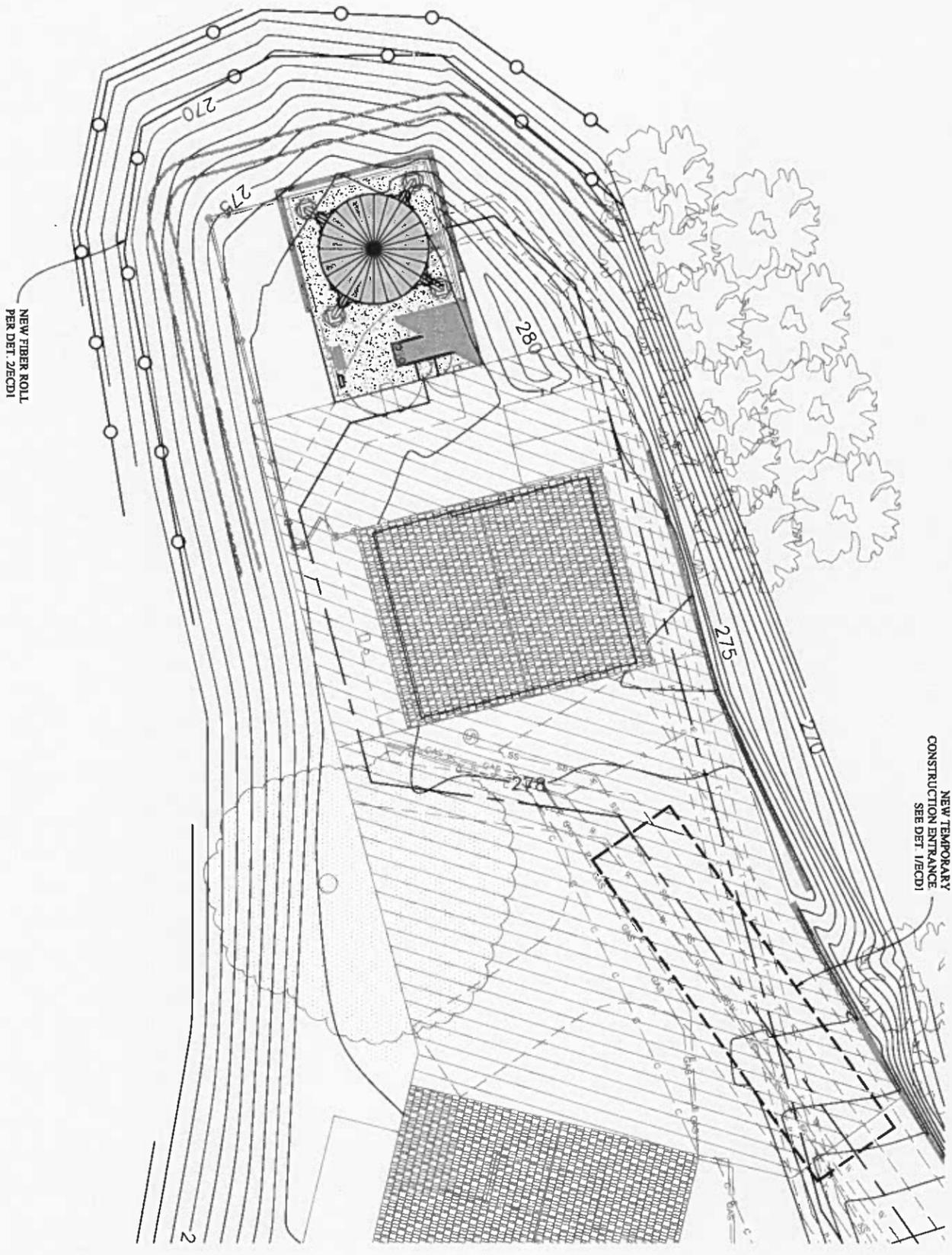
**DES**  
 DIAMOND ENGINEERING SERVICES

4255 PARK RD.  
 BENICIA, CA 94610

GR-2

Job No.: N14014  
 Draw/Check By: BILL / EKU

1 EROSION CONTROL PLAN



SCALE: 1/8"=1'-0"

EC-1

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 PSL #248125  
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**EROSION CONTROL PLAN**

**verizon**  
 wireless

2786 MITCHELL DRIVE  
 WALNUT CREEK, CA  
 94598 TEL: (925) 904-3633  
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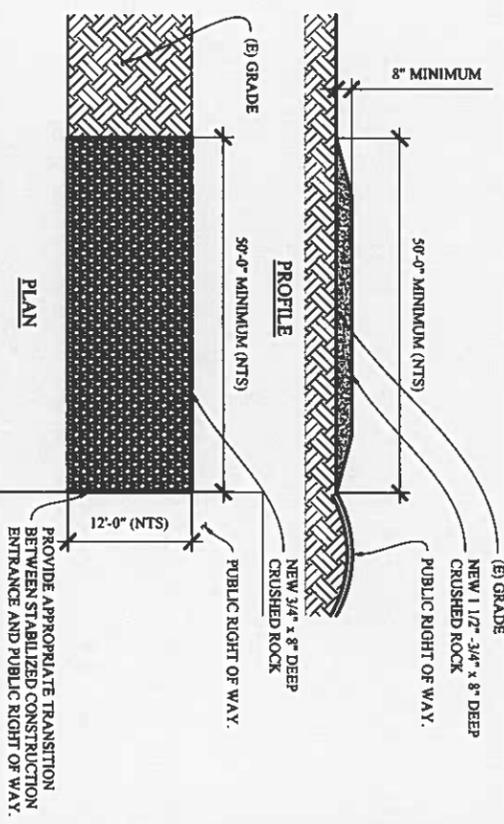
**EROSION CONTROL NOTES**

**TEMPORARY EROSION CONTROL MEASURES EFFECTIVE DURING RAINY SEASON:  
OCTOBER 1 TO APRIL 15**

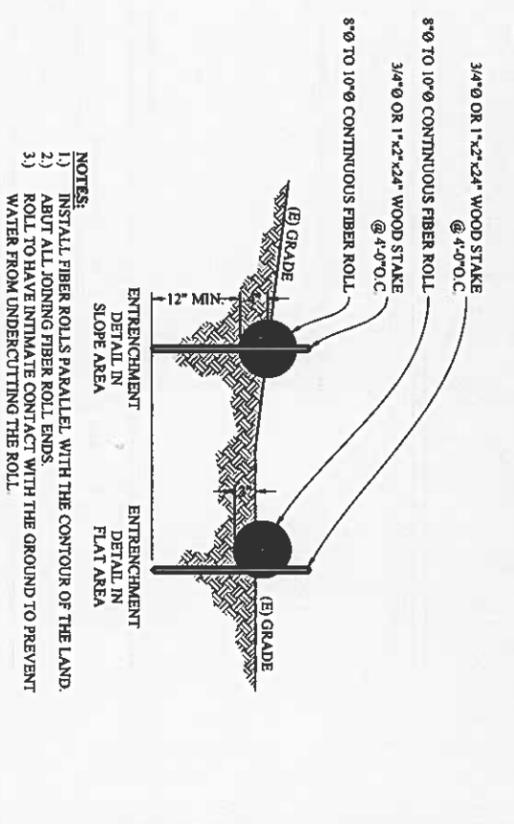
1. Temporary erosion control devices shown on grading plan which interfere with the work shall be relocated or modified when the Inspector so directs as the work progresses.
2. Except as otherwise directed by the Inspector, all devices shown on the Erosion Control Plan shall be in place at the end of each working day. All erosion control facilities must be inspected and repaired at the end of each working day during the rainy season and maintained during the rainy season (October 1 to April 15).
3. All erosion and sediment control measures shall be constructed and maintained in accordance with the provisions of the Association of Bay Area Governments (ABAG) Manual of Standards for Erosion and Sediment Control Measures of the Engineering Division within these General Notes. Control measures are subject to inspection and approval of the Engineering Division of the Jurisdiction. Schedule an engineering inspection by calling at least 48 hours prior to the start of any work.
4. All loose soil and debris shall be removed from the street areas upon starting operations and periodically thereafter as directed by the Inspector. The site shall be maintained so as to minimize sediment laden runoff to any storm drain system.
5. The Contractor shall place drain rock as a gravel roadway (6" minimum thickness for the full width and 50 feet long) at each road entrance to the site. Any mud that is tracked onto public streets shall be removed the same day as required by the Jurisdiction Engineer.
6. Standby crews shall be alerted by the Permittee or Contractor for emergency work during rainstorms.
7. After October 1, all erosion control measures will be inspected daily and after each storm. After October 1, breaches in dikes and swales will be repaired at the close of each day and whenever rain is forecast.
8. As a part of the erosion control measures, underground storm drain facilities and concrete shall be installed complete as shown on the improvement plans.
9. All storm drain inlet structures greater than four feet in depth shall have steps installed per the latest accepted safety standards. A 6" concrete cover slab shall be installed over pipe with less than 2.5 feet of cover to subgrade. All pipe to be Class III unless otherwise noted.
10. All graded areas, including, but not limited to, cut and fill slopes, streets, parking areas, and building pads shall be hydroseeded per ADAG. In addition to hydroseeding, application of straw with a tackifier or mulch may be required by the Jurisdiction Engineer.
11. If any grading operations, other than lat tish grading, are to be performed during the rainy season, October 1 through April 15, an erosion control plan must be submitted by September 1 and the plan must be approved by the Jurisdiction prior to the commencement of any such grading operations.
12. To minimize erosion of graded areas, all graded areas steeper than 2% and higher than 3 feet, shall be hydroseeded, landscaped, or seeded. In addition to hydroseeding, application of straw with a tackifier or mulch may be required by the Jurisdiction Engineer. If the permanent storm drain system is not installed by October 1, temporary ditches shall be constructed to contain the storm water and direct it, in a manner that avoids erosion of the banks, to the erosion and sediment control facilities.
13. All cut and fill slopes are to be protected to prevent overbank flow using 4" earth berms or silt fences, hydroseeded per Jurisdiction's requirement, but not limited to, cut and fill slopes, streets, parking areas, and building pads shall be hydroseeded per Jurisdiction's requirement. Suggested mix design follows:
  - Blender Brome 40 lbs/cacre
  - Zoro Fascia 10 lbs/cacre
  - Hylon Rosa Clover 9 lbs/cacre
  - Sub Clover 5 lbs/cacre
  - California Native Wildflower 8 lbs/cacre
  - Fertilizer 300 lbs/cacre
  - Organic Binder 100 lbs/cacre
  - Straw Mulch 4000 lbs/cacre
14. Borrow areas and temporary stockpiles shall be protected with appropriate erosion control measures to the satisfaction of the Jurisdiction Engineer.
15. Sandbags, straw wattles and/or straw bales shall be stockpiled on site and placed at intervals shown on erosion control plans, when the rain forecast is 40% or greater, or when directed by the Inspector.
16. Sandbags referred to in the preceding items must be full. Approved sandbag fill materials are decomposed granite and gravel, or other materials approved by the Inspector.
17. When directed by the Inspector, a 12-inch berm shall be maintained along the top of the slope of those fills on which grading is not in progress.
18. When pad elevations or adjacent lots or elevations between the street and the lot are separated by more than 6 feet, a minimum 12" berm shall be maintained along the property line separating the lots, and the berm shall direct the water to the outlet. Veto/Jurisdiction check dams shall be installed between the outlet on the lot and the street.
19. Provide veto/Jurisdiction check dams in all ungraded streets at the intervals indicated below in Note #21.
20. Veto/Jurisdiction check dams may be constructed of straw bales, sandbags or other erosion resistant materials approved by the Inspector, and shall extend completely across the street or channel at right angles to the centerline. Earth dikes may not be used as veto/Jurisdiction check dams.
21. Provide veto/Jurisdiction check dams in all ungraded graded channels at the intervals indicated below:
 

Grade of Channel	Interval
Less than 3%	100 feet
3% to 6%	50 feet
Over 6%	25 feet
22. Sewer or storm drain trenches that are out through basin dikes or basin inlet dikes, shall be plugged with sandbags from top of pipe to top of dike. Sewer lines shall first be encased in concrete before sandbags are placed.
23. All open utility trenches shall be blocked at the prescribed intervals from the bottom to top with a double row of sandbags extending downward, two sandbags from the prescribed intervals with a double row of sandbags extending upward, header and stretcher courses. The intervals prescribed between sandbag locking shall depend on the slope of the ground surface, but not exceed the following:
 

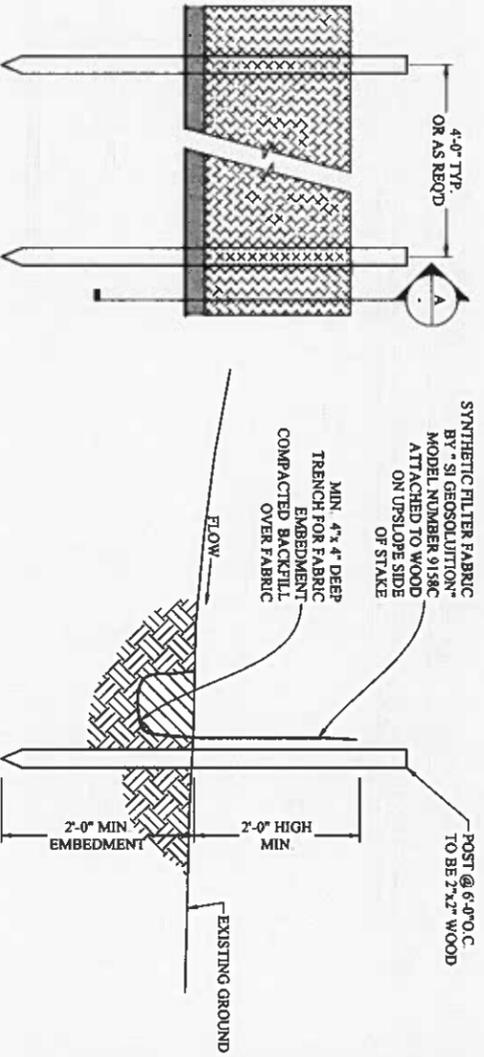
Grade of the Street	Interval
Leas than 2%	As required
2% to 4%	100 feet
4% to 10%	50 feet
Over 10%	25 feet
24. After storm drain, sanitary sewer and utility trenches are bedded and compacted, the surfaces over such trenches shall be mounded slightly to prevent channeling of water in the trench area. Care should be exercised to provide for cross flow at frequent intervals where trenches are not on the center line of a crowned street.



**1 TEMPORARY CONSTRUCTION ENTRANCE**  
SCALE: 1/12"=1'-0"



**2 FIBER ROLL DETAIL**  
SCALE: 1/16"=1'-0"



**3 SILT FENCE DETAIL**  
SCALE: 1/16"=1'-0"

**DES**  
DIAMOND ENGINEERING SERVICES

4255 PARK RD.  
BENICIA, CA 94510

**verizon**  
wireless

2786 MITCHELL DRIVE  
WALNUT CREEK, CA  
94598 TEL: (925) 904-3533  
FAX: (925) 904-3513

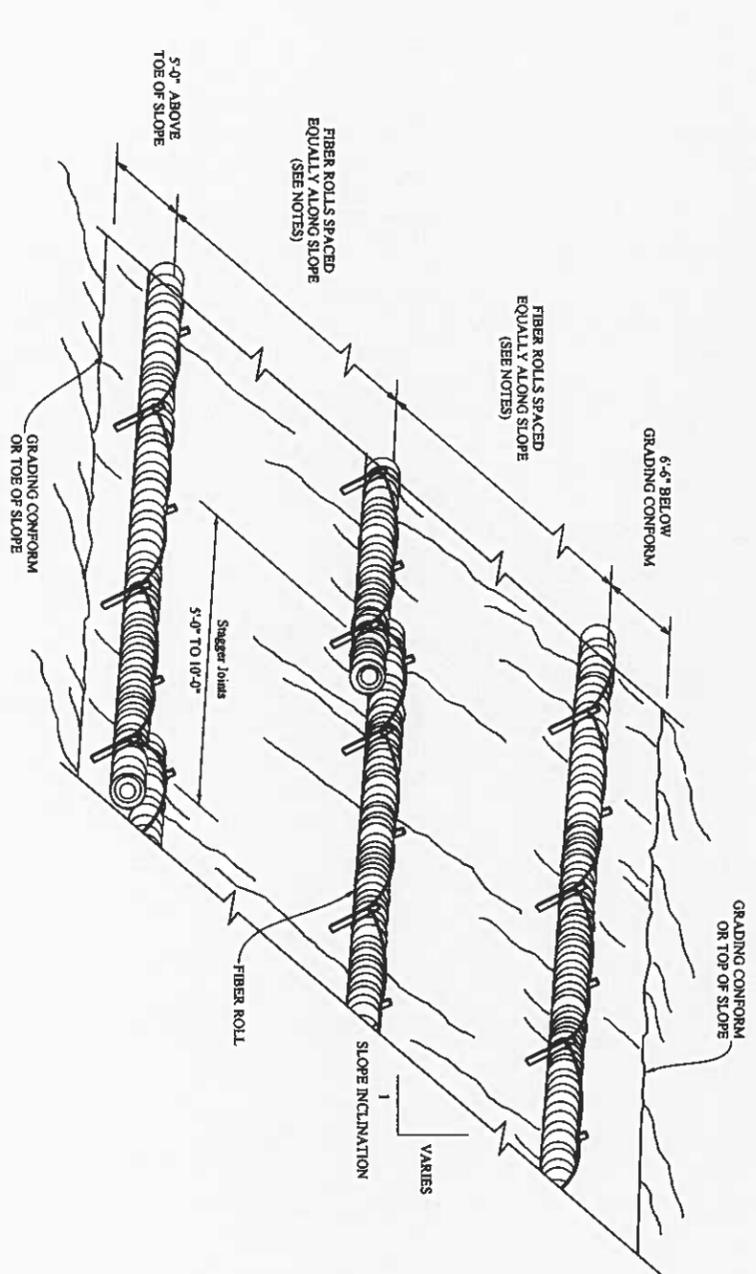
**VERIZON WIRELESS**  
PSL #248125  
2518 PFEIFFER LANE  
PINOLE, CA 94564

**EROSION CONTROL DETAILS & NOTES**

REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
Q	FOR REVIEW	02-11-2015
R	FOR REVIEW	02-25-2015
S	FOR REVIEW	03-19-2015
T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

Job No.: N14014  
Draw/Check By: BLL / EKV

**ECD1**



1 FIBER ROLL (TYPE 2)

SCALE: 1"=1'-0"

PERSPECTIVE  
FIBER ROLL (TYPE 2)

REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
Q	FOR REVIEW	02-11-2015
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T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

VERIZON WIRELESS  
PSL #248125  
2518 PFEIFFER LANE  
PINOLE, CA 94564

EROSION CONTROL DETAILS

**verizon**  
wireless  
2786 MITCHELL DRIVE  
WALNUT CREEK, CA  
94598 TEL: (925) 904-3633  
FAX: (925) 904-3513

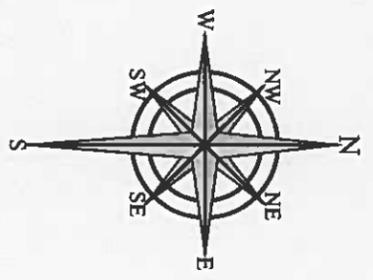
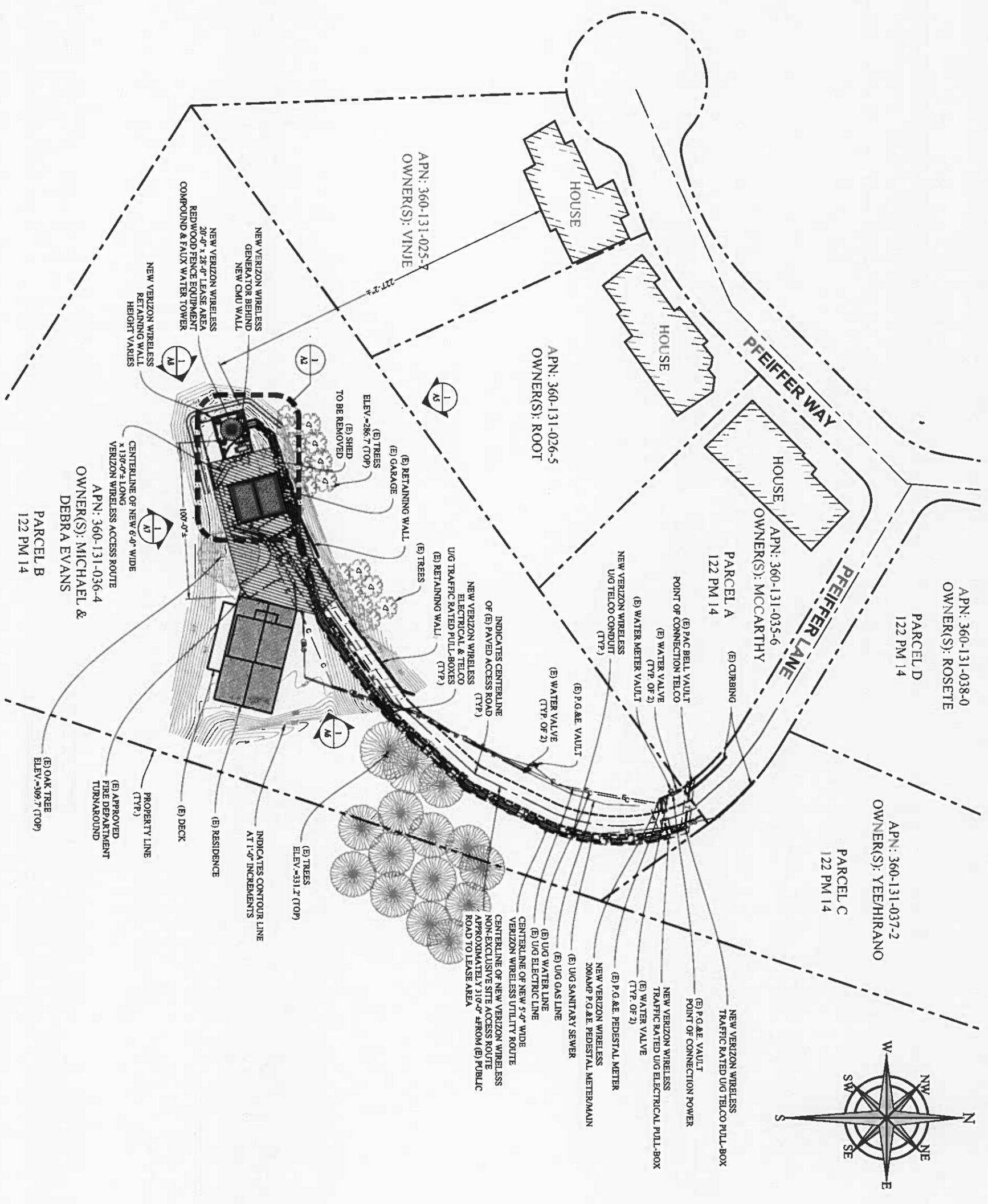


4255 PARK RD.  
BENICIA, CA 94610

ECD2

Job No.: N14014  
Draw/Check By: BILL / EKV

1 SITE PLAN



SCALE 1" = 30'-0"

REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
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S	FOR REVIEW	03-19-2015
T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

**VERIZON WIRELESS**  
**PSL #248125**  
**2518 PFEIFFER LANE**  
**PINOLE, CA 94564**

**SITE PLAN**

**2786 MITCHELL DRIVE**  
**WALNUT CREEK, CA**  
**94598 TEL: (925) 904-3533**  
**FAX: (925) 904-3513**

**4256 PARK RD.**  
**BENICIA, CA 94510**

**A1**

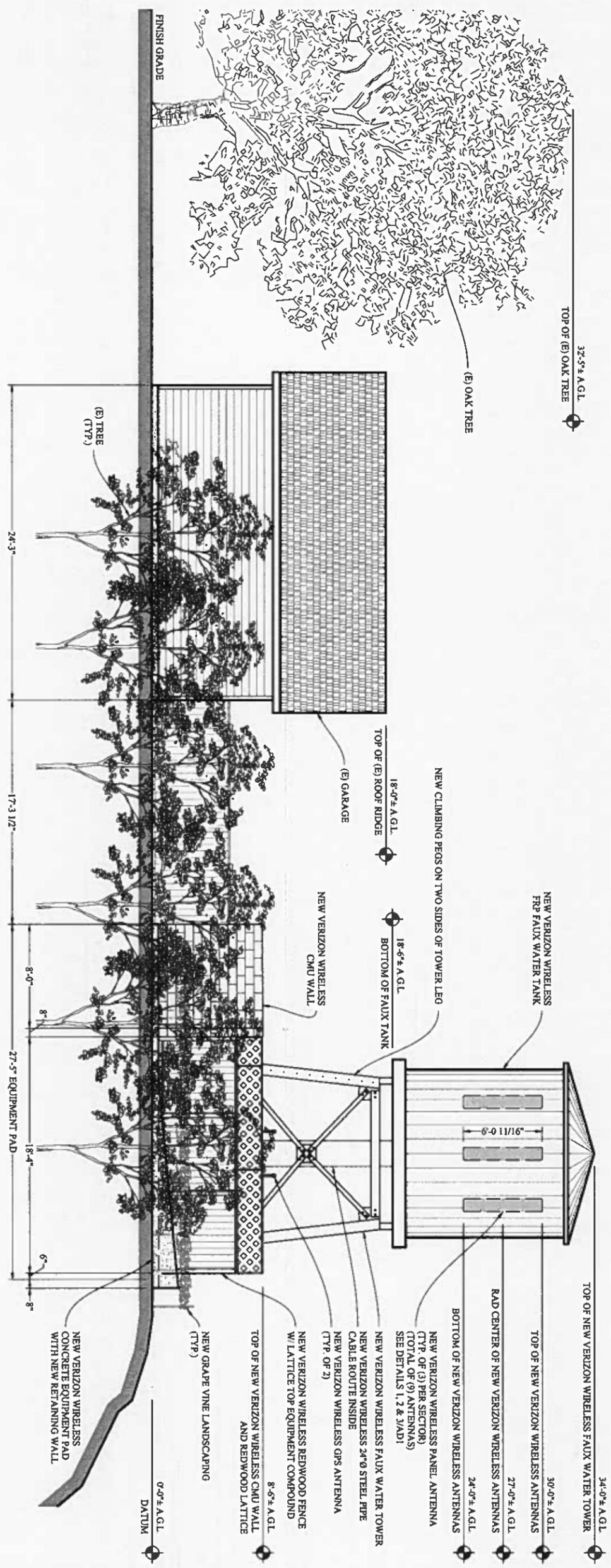
Job No.: N14014  
 Draw/Check By: BLL / EKV







**1 NORTH ELEVATION**



REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
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Job No.: N14014  
 Draw/Check By: BILL / EKV

**VERIZON WIRELESS**  
**PSL #248125**  
**2518 PFEIFFER LANE**  
**PINOLE, CA 94564**

**NORTH ELEVATION**

**verizon**  
 wireless

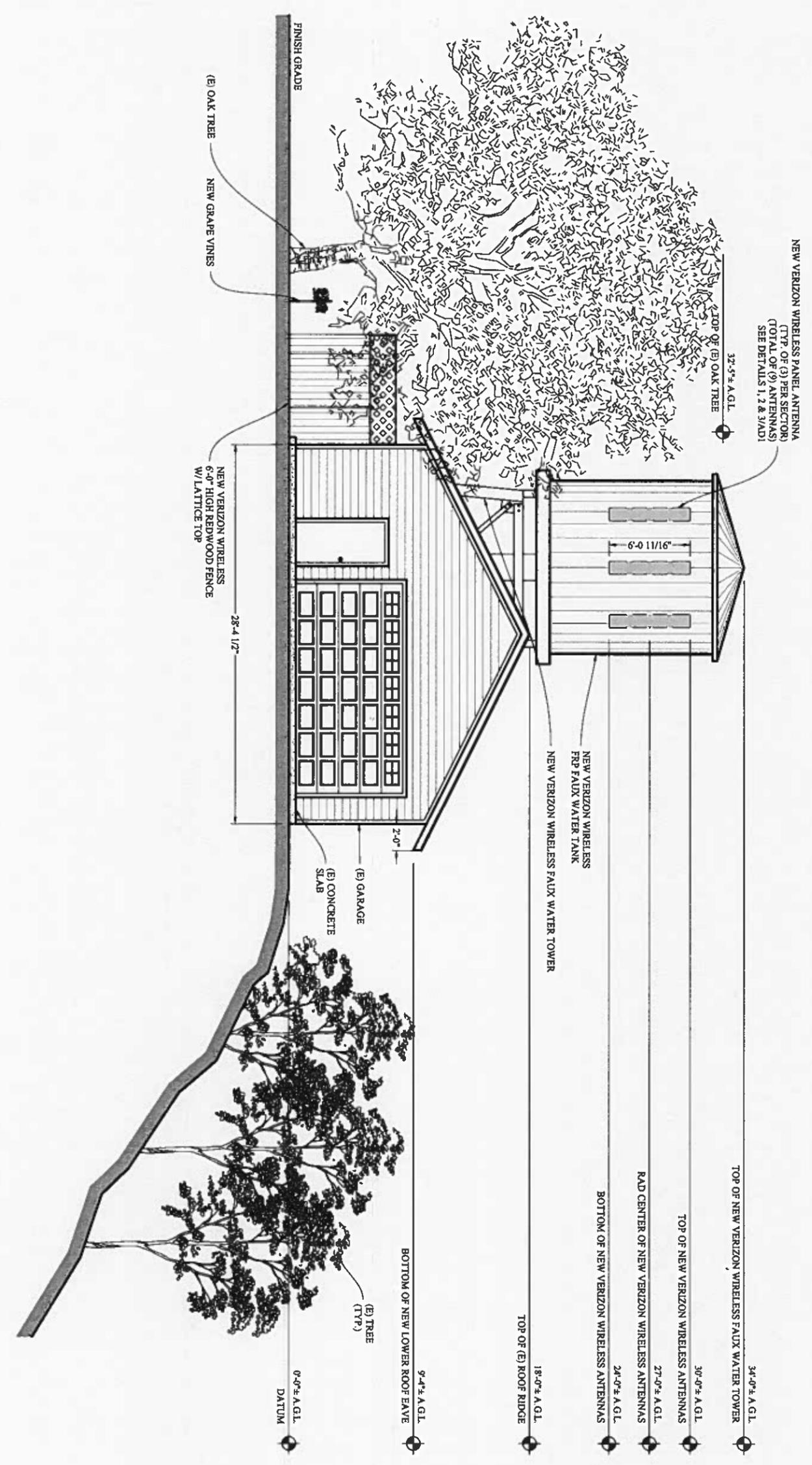
2786 MITCHELL DRIVE  
 WALNUT CREEK, CA  
 94598 TEL: (925) 904-3533  
 FAX: (925) 904-3513

**DES**  
 DIAMOND ENGINEERING SERVICES

4255 PARK RD.  
 BENICIA, CA 94510

**A5**

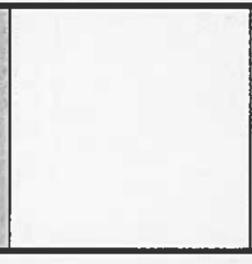
1 EAST ELEVATION



REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
Q	FOR REVIEW	02-11-2015
R	FOR REVIEW	02-25-2015
S	FOR REVIEW	03-19-2015
T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

VERIZON WIRELESS  
PSL #248125  
2518 PFEIFFER LANE  
PINOLE, CA 94564

**EAST ELEVATION**

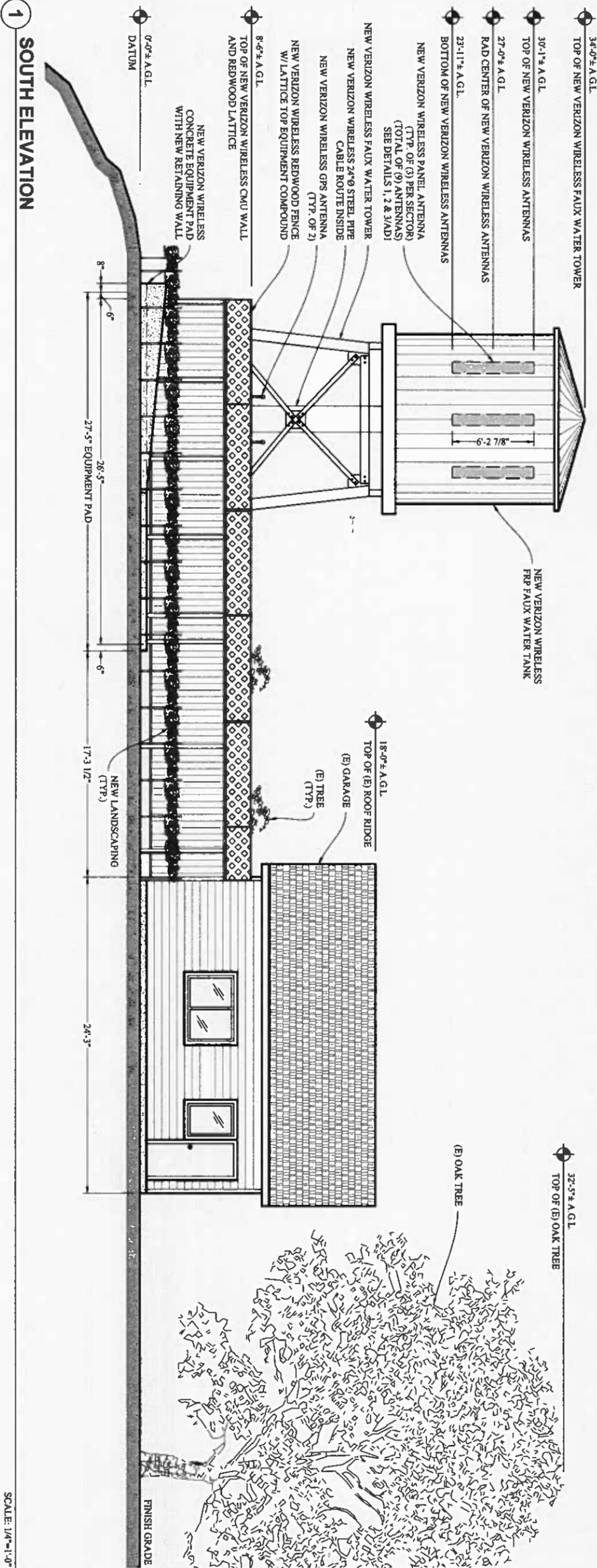


**verizon**  
wireless

2785 MITCHELL DRIVE  
WALNUT CREEK, CA  
94598 TEL: (925) 904-3633  
FAX: (925) 904-3513

**DES**  
DIAMOND ENGINEERING SERVICES

4255 PARK RD.  
BENICIA, CA 94610

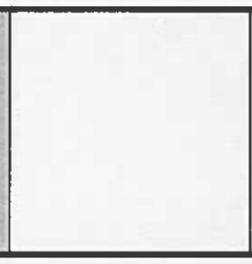


REVISIONS

No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
Q	FOR REVIEW	02-11-2015
R	FOR REVIEW	02-25-2015
S	FOR REVIEW	03-19-2015
T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

VERIZON WIRELESS  
 PSL #248125  
 2518 PFEIFFER LANE  
 PINOLE, CA 94564

**SOUTH ELEVATION**



**verizon**  
 wireless

2785 MITCHELL DRIVE  
 WALNUT CREEK, CA  
 94598 TEL: (925) 904-3833  
 FAX: (925) 904-3813

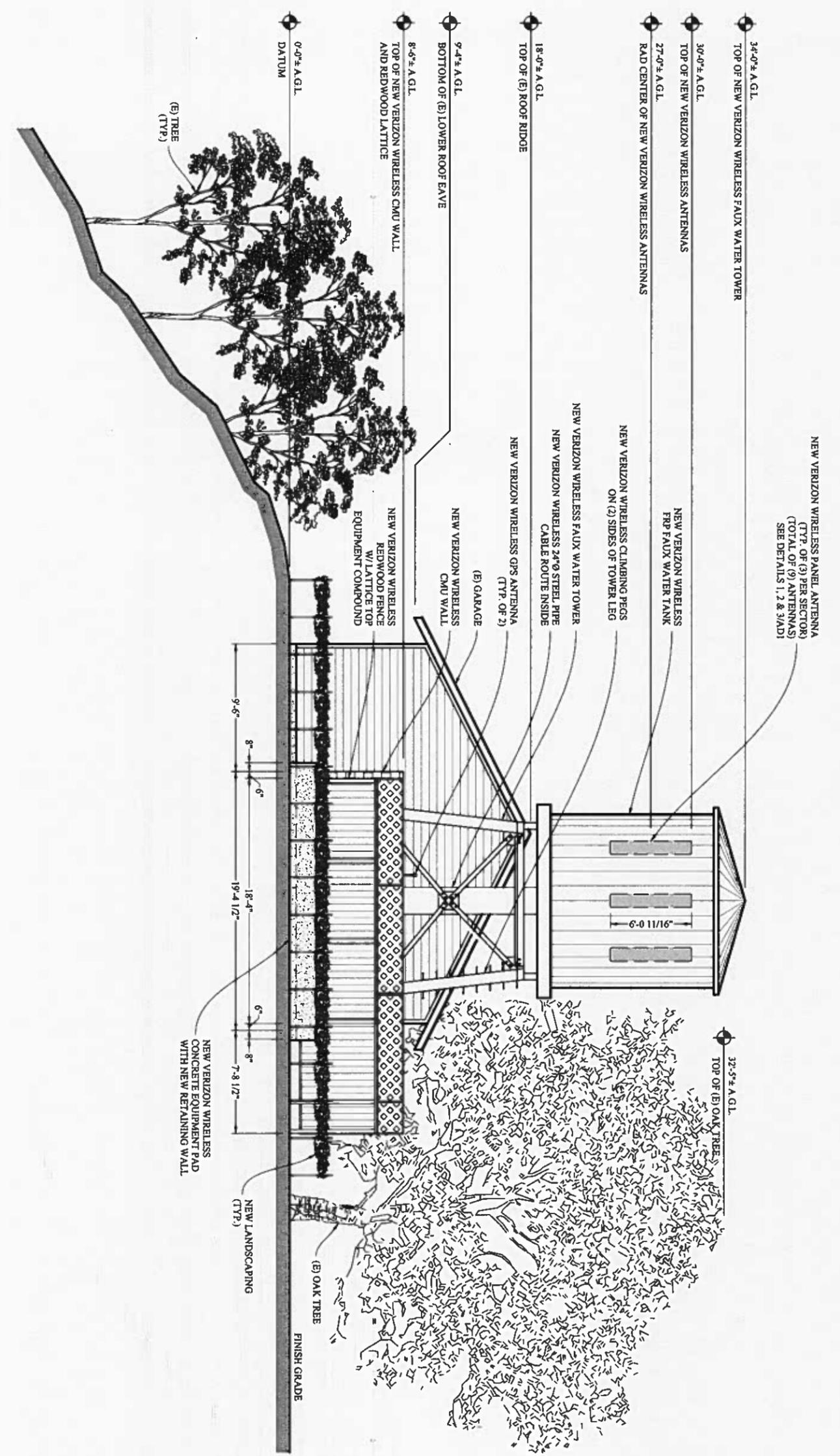
**DES**  
 DIAMOND ENGINEERING SERVICES

4266 PARK RD.  
 BENICIA, CA 94510

A7

Job No.: N14014  
 Draw/Check By: BLL / EKLJ

1 WEST ELEVATION



SCALE 1/4"=1'-0"

REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
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S	FOR REVIEW	03-19-2015
T	ADD PIPE	05-01-2015
W	UPDATE EQUIPMENT LAYOUT	05-28-2015

VERIZON WIRELESS  
 PSL #248126  
 2518 PFEIFFER LANE  
 PINOLE, CA 94664

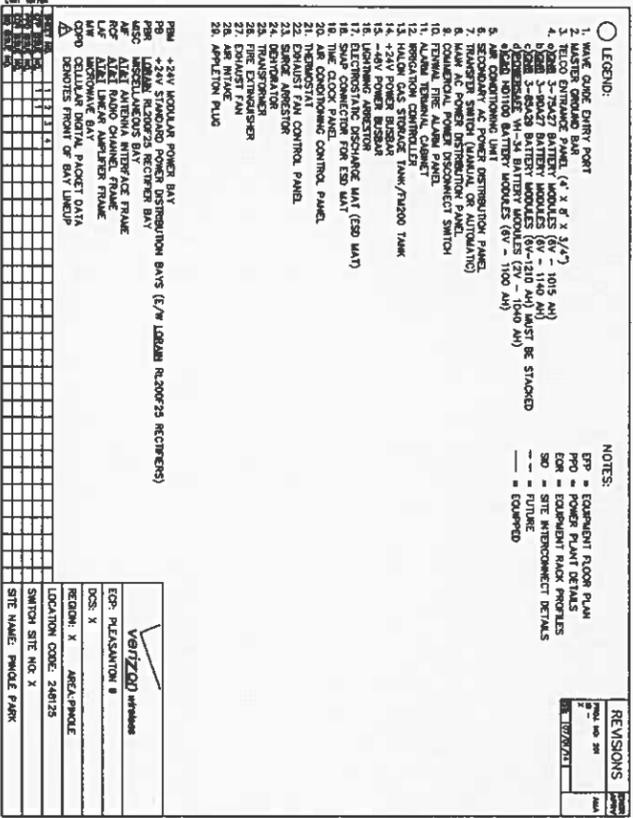
**WEST ELEVATION**

2786 MITCHELL DRIVE  
 WALNUT CREEK, CA  
 94698 TEL: (925) 904-3633  
 FAX: (925) 904-3513

4255 PARK RD.  
 BENICIA, CA 94610

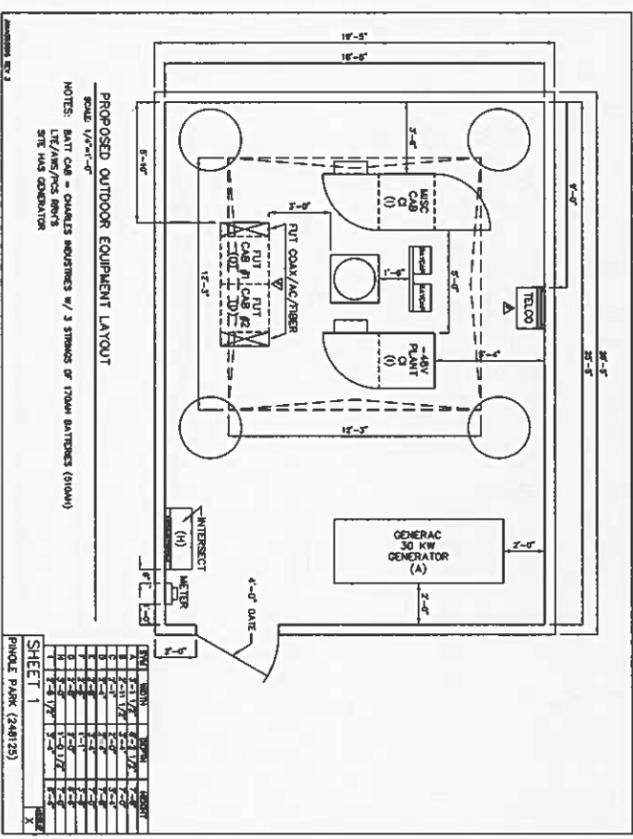
A8

Job No.: N14014  
 Draw/Check By: BLL / EJU



**2 EQUIPMENT LAYOUT**

SCALE: NONE



**1 LEGEND AND NOTES**

SCALE: NONE

REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
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W	UPDATE EQUIPMENT LAYOUT	05-28-2015

Job No.: N14014  
 Draw/Check By: BLL / EKV

**VERIZON WIRELESS**  
**PSL #248125**  
**2518 PFEIFFER LANE**  
**PINOLE, CA 94564**

**EQUIPMENT LAYOUT, LEGEND AND NOTES**

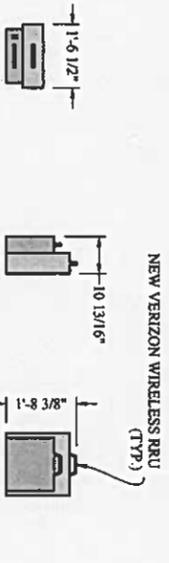
**verizon**  
 wireless

2786 MITCHELL DRIVE  
 WALNUT CREEK, CA  
 94598 TEL: (925) 904-3633  
 FAX: (925) 904-3613

**DES**  
 DIAMOND ENGINEERING SERVICES

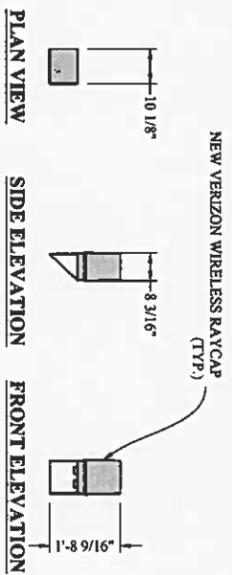
4255 PARK RD.  
 BENICIA, CA 94610

RRU DATA		
DIMENSIONS:	WIDTH	DEPTH
	18 3/4"	10 8"
	HEIGHT	20 3/4"
POWER CONSUMPTION:	200 WATTS	
TOTAL WEIGHT:	71.4 LBS	



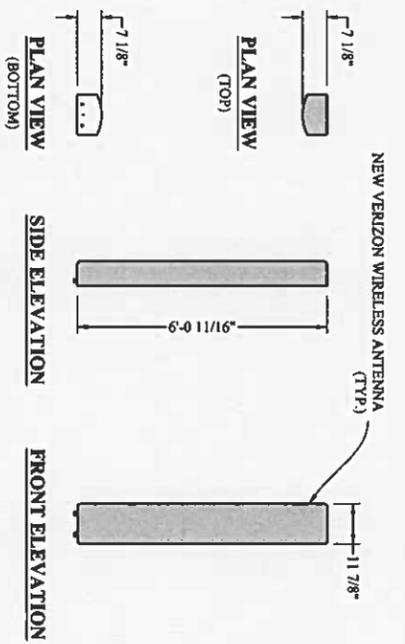
#### 4 RRU DETAIL

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



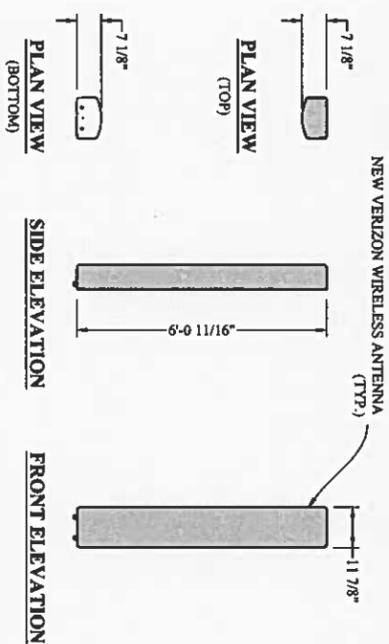
#### 5 RAYCAP DETAIL

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



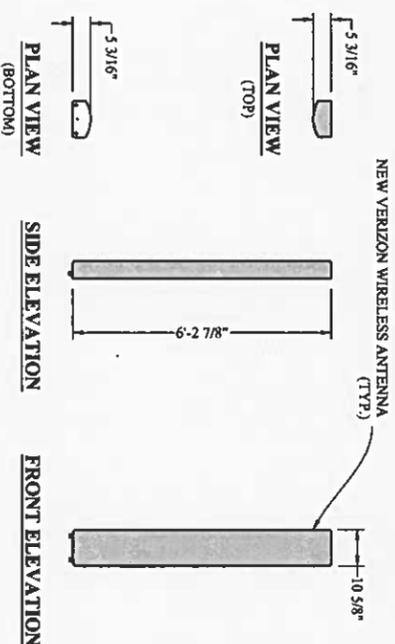
#### 1 ANTENNA DETAIL

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



#### 2 ANTENNA DETAIL

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



#### 3 ANTENNA DETAIL

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

REVISIONS		
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VERIZON WIRELESS  
PSL #248125  
2518 PFEIFFER LANE  
PINOLE, CA 94564

### ANTENNA, RRU & RAYCAP DETAILS

**verizon**  
wireless  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA  
94598 TEL: (925) 904-3533  
FAX: (925) 904-3513

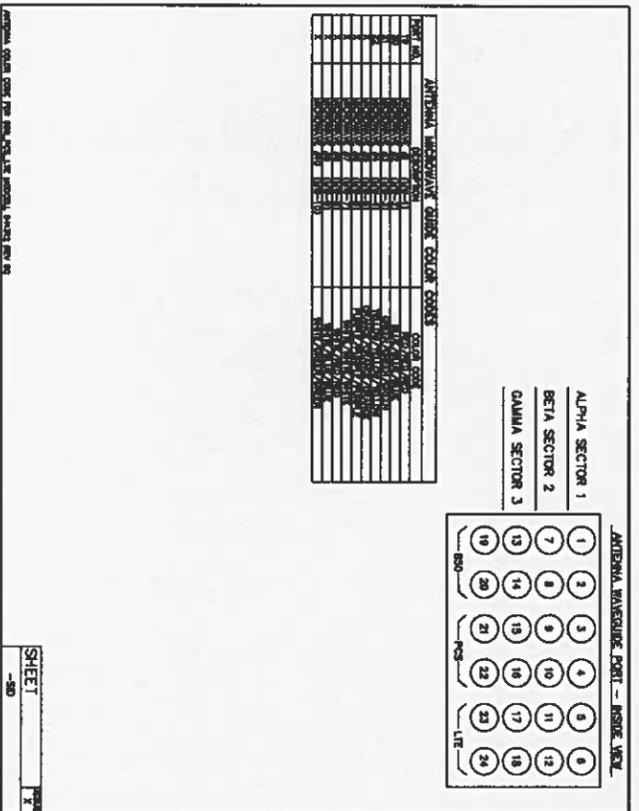
**DES**  
DIAMOND ENGINEERING SERVICES

4255 PARK RD.  
BENICIA, CA 94610

Job No.:  
N14014

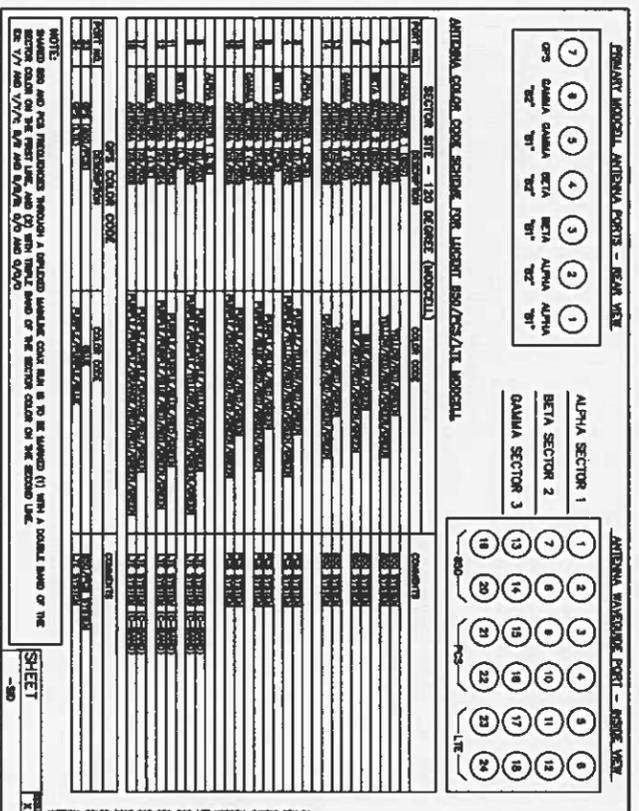
Draw/Check By:  
BILL / EKV

AD1



3 ANTENNA COLOR CODES (CONT.)

SCALE: NONE



1 ANTENNA COLOR CODES

SCALE: NONE

ANTENNA COLOR CODE SCHEDULE FOR LITE (A-BAND) AND AWS

PORT NO.	SECTION SITE - 120 DEGREE	COLOR CODE	COMMENT
1	ALPHA SECTOR 1	ALPHA SECTOR 1	
2	ALPHA SECTOR 1	ALPHA SECTOR 1	
3	ALPHA SECTOR 1	ALPHA SECTOR 1	
4	ALPHA SECTOR 1	ALPHA SECTOR 1	
5	ALPHA SECTOR 1	ALPHA SECTOR 1	
6	ALPHA SECTOR 1	ALPHA SECTOR 1	
7	BETA SECTOR 2	BETA SECTOR 2	
8	BETA SECTOR 2	BETA SECTOR 2	
9	BETA SECTOR 2	BETA SECTOR 2	
10	BETA SECTOR 2	BETA SECTOR 2	
11	BETA SECTOR 2	BETA SECTOR 2	
12	BETA SECTOR 2	BETA SECTOR 2	
13	GAMMA SECTOR 3	GAMMA SECTOR 3	
14	GAMMA SECTOR 3	GAMMA SECTOR 3	
15	GAMMA SECTOR 3	GAMMA SECTOR 3	
16	GAMMA SECTOR 3	GAMMA SECTOR 3	
17	GAMMA SECTOR 3	GAMMA SECTOR 3	
18	GAMMA SECTOR 3	GAMMA SECTOR 3	
19	GAMMA SECTOR 3	GAMMA SECTOR 3	
20	GAMMA SECTOR 3	GAMMA SECTOR 3	
21	GAMMA SECTOR 3	GAMMA SECTOR 3	
22	GAMMA SECTOR 3	GAMMA SECTOR 3	
23	GAMMA SECTOR 3	GAMMA SECTOR 3	
24	GAMMA SECTOR 3	GAMMA SECTOR 3	

NOTE: SHADING AND THE PROJECTIONS THROUGH A PORTION WAVEGUIDE COLOR MAP IS TO BE NUMBERED (1) WITH A DOUBLE BAND OF THE SECTOR COLOR ON THE FIRST LINE AND ON WITH TRIPLE BAND OF THE SECTOR COLOR ON THE SECOND LINE.

ANTENNA COLOR CODE FOR 984-POL-LITE MODEL 0425 REV B4

SHEET -30

2 ANTENNA COLOR CODES (CONT.)

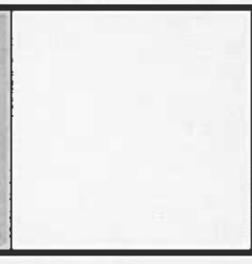
SCALE: NONE

REVISIONS		
No.	DESCRIPTION	DATE
P	FOR REVIEW	10-30-2014
Q	FOR REVIEW	02-11-2015
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Job No.: N14014  
Draw/Check By: BILL / EKV

VERIZON WIRELESS  
PSL #248125  
2518 PFEIFFER LANE  
PINOLE, CA 94564

ANTENNA COLOR CODES



2785 MITCHELL DRIVE  
WALNUT CREEK, CA  
94598  
TEL: (925) 904-3533  
FAX: (925) 904-3513

4255 PARK RD.  
BENICIA, CA 94610

AD2

