

verizon wireless

SITE NAME: HWY 101 & 237

PSL NUMBER: 277666

SITE ADDRESS: 787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

SITE ADDRESS:

787 NORTH MARY AVE
SUNNYVALE, CA 94085

PROPERTY OWNER:

NORTH MARY LLC
3715 HAVEN AVENUE SUITE 210
MENLO PARK, CA 94025
CONTACT: TJ BIANCHI AND TITO BIANCHI
PHONE: (650) 298-0080

PROJECT ARCHITECT:

DIAMOND ENGINEERING SERVICES
4255 PARK ROAD
BENICIA, CA 94510
CONTACT: BRUCE LYON, ARCHITECT

PROJECT ENGINEER:

DIAMOND ENGINEERING SERVICES, INC
4255 PARK ROAD
BENICIA, CA 94510
CONTACT: ERIC UHRENHOLT, PE

CONSTRUCTION MANAGER:

NSA WIRELESS, INC.
2010 CROW CANYON PL., STE. #355
SAN RAMON, CA 94583
CONTACT: SCOTT COWAN
PHONE: (707) 689-4144

ZONING/LEASING AGENT:

NSA WIRELESS, INC.
2010 CROW CANYON PL., STE. #355
SAN RAMON, CA 94583
PAMELA NOBEL
PHONE: (707) 486-7252

JURISDICTION:

CITY OF SUNNYVALE

COUNTY:

SANTA CLARA COUNTY

APN NUMBER

165-40-003

ELEVATION (NAVD88):

40.2'± AMSL

APPLICANT:

verizon wireless



2785 MITCHELL DRIVE
WALNUT CREEK, CA 94598

LATITUDE (NAD83):

37° 23' 56.5" N

LONGITUDE (NAD83):

122° 02' 09.2" W

POWER COMPANY:

P.G.&E.
PHONE: (800) 743-5000

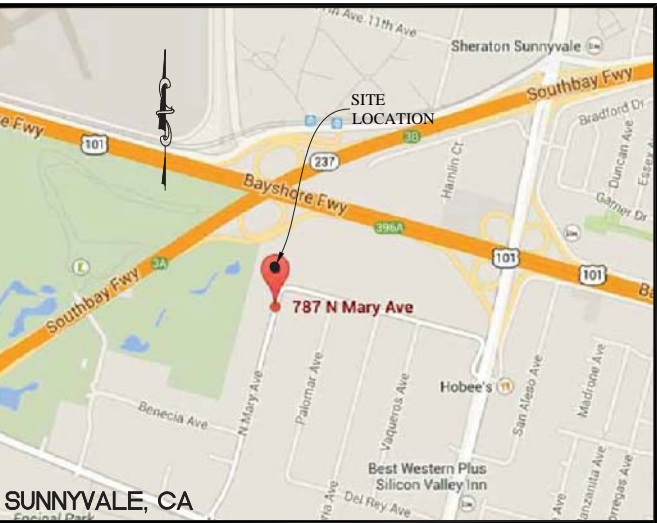
TELCO COMPANY:

AT&T

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.

1. 2013 CALIFORNIA BUILDING CODE (CBC)
2. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
 - CALIFORNIA FIRE CODE 2013 EDITION UFC
 - CALIFORNIA BUILDING CODE 2013 EDITION CBC
 - CALIFORNIA MECHANICAL CODE 2013 EDITION IAPMO
 - CALIFORNIA PLUMBING CODE 2013 EDITION IAPMO
 - CALIFORNIA ELECTRICAL CODE 2013 EDITION 2008 NEC
 - CAL GREEN CODE 2013 EDITION CGC
3. CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE (CEES) 2013 EDITION REVISED JULY 2013, AND ALL APPLICABLE LOCAL & STATE ORDINANCES, CODES AND REGULATIONS AND 2013 CALIFORNIA STATE STANDARDS CODE AMENDMENTS.
4. 2. LOCAL BUILDING CODE
5. 3. CITY/COUNTY ORDINANCES
6. NFPA 76
7. EQUIPMENT SHELTER INSPECTED AND APPROVED BY STATE OF CALIFORNIA. NOT SUBJECT FOR LOCAL INSPECTION
8. COMPLY W/ SUNNYVALE MUNICIPAL CODE.
9. FUEL TANK SUPPORTING GENERATOR SHALL COMPLY THE REQUIREMENTS OF CHAPTER 57 CFC AND THE SUNNYVALE MUNICIPAL CODE

BUILDING CODES



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:

DATE:

SIGNATURE:

DATE:

VERIZON WIRELESS CONSTRUCTION:

VERIZON WIRELESS RF ENGINEER:

SIGNATURE:

DATE:

SIGNATURE:

DATE:

PROPERTY OWNER:

AGENT - LEASING:

SIGNATURE:

DATE:

SIGNATURE:

DATE:

AGENT - CONSTRUCTION:

AGENT - ZONING:

SIGNATURE:

DATE:

SIGNATURE:

DATE:

SIGNATURE OF APPROVAL

1. INSTALL NEW VERIZON WIRELESS SHELTER LOCATED IN THE (E) PARKING AREA.
2. INSTALL NEW 30kW DIESEL GENERATOR, W/ 132 GALLON, UL 142 LISTED TANK ON NEW CONCRETE PAD INSIDE FENCED COMPOUND.
3. INSTALL NEW 54'-0" EUCALYPTUS INSIDE NEW FENCED COMPOUND.
4. INSTALL (3) NEW ANTENNAS PER SECTOR TO THE NEW MONO EUCALYPTUS, (3) SECTORS TOTAL, FOR A TOTAL OF (9) ANTENNAS.
5. INSTALL (3) NEW RRUS PER SECTOR TO THE NEW MONOPINE, (3) SECTORS TOTAL, FOR A TOTAL OF (9) RRUS.
6. INSTALL (2) NEW RAYCAPS/SURGE SUPPRESSORS TO THE NEW EUCALYPTUS.

PROJECT DESCRIPTION



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

NSA Wireless, Inc.

2010 CROW CANYON PL., STE. #355
SAN RAMON, CA 94583
(925) 244-1890



PROJECT TEAM

| SHEET NO | DESCRIPTION |
|----------|-----------------------------------|
| T1 | PROJECT INFORMATION & SHEET INDEX |
| G1 | GENERAL NOTES AND ABBREVIATIONS |
| C-1 | SITE SURVEY |
| C-2 | SITE SURVEY |
| A1 | SITE PLAN |
| A2 | EQUIPMENT & ANTENNA PLAN |
| A3 | NORTH EAST ELEVATION |
| A4 | SOUTH EAST ELEVATION |
| A5 | SOUTH WEST ELEVATION |
| A6 | NORTH WEST ELEVATION |
| A7 | EQUIPMENT & CABLE TRAY LAYOUTS |
| AD1 | ANTENNA, RRU & RAYCAP DETAILS |
| AD2 | ANTENNA COLOR CODES |

SITE INFORMATION

ZONING: MS-INDUSTRIAL/SERVICE
ZONING CLASSIFICATION: MS-INDUSTRIAL/SERVICE
BUILDING TYPE: V-B
OCCUPANCY: S-2, UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY
FIRE SPRINKLES: AN AUTOMATED FIRE SUPPRESSION SYSTEM (FIRE SPRINKLERS) IS NOT REQUIRED.
SITE COMPOUND LEASE AREA: 895± SQ. FT. (21'-10" x 41'-0")
SHELTER LEASE AREA: 194± SQ. FT. (INCLUDED IN COMPOUND AREA)
TOTAL LEASE AREA: 895± SQ. FT.

BUILDING DATA



4255 PARK ROAD
BENICIA, CA 94510
TEL: 707-304-3351



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

VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

PROJECT INFORMATION
& SHEET INDEX

| REVISIONS | DESCRIPTION | DATE | No. | D | E | F | G | H | J |
|-----------|------------------|------------|-----|---|---|---|---|---|---|
| | | | | | | | | | |
| | FOR REVIEW | 07-24-2014 | | | | | | | |
| | FOR REVIEW | 08-01-2014 | | | | | | | |
| | FOR REVIEW | 08-04-2014 | | | | | | | |
| | FOR REVIEW | 08-08-2014 | | | | | | | |
| | PER PLAN COMMENT | 02-09-2015 | | | | | | | |
| | PER PLAN COMMENT | 02-17-2015 | | | | | | | |

Job No.: N14027
Draw/Check By: BLL / EKV

T1


| | | | |
|-----------|--|--------|---|
| A/C | AIR CONDITIONING | GYP BD | GYPSUM BOARD |
| AB | ANCHOR BOLT | | |
| AC | ASPHALTIC CONCRETE | HDR | HEADER |
| ACI | AMERICAN CONCRETE INSTITUTE | HDG | HOT DIP GALVANIZED |
| AD | AREA DRAIN | HORIZ | HORIZONTAL |
| ADDL | ADDITIONAL | HSS | HOLLOW STRUCTURAL SECTION |
| ADH | ADHESIVE | | |
| ADJ | ADJACENT | IBC | INTERNATIONAL BUILDING CODE |
| ADJ | ADJUSTABLE | ID | INSIDE DIAMETER |
| AFF | ABOVE FINISHED FLOOR | ISO | INTERNATIONAL STANDARDS ORGANIZATION |
| AFG | ABOVE FINISHED GRADE | | |
| AFS | ABOVE FINISHED SLAB | | |
| AGL | ABOVE GRADE LEVEL | LBS | POUND |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | LF | LINEAR FEET (FOOT) |
| | | LONG | LONGITUDINAL |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE | MAX | MAXIMUM |
| APA | AMERICAN PLYWOOD ASSOCIATION | MB | MACHINE BOLT |
| APPROX | APPROXIMATE | MFR | MANUFACTURER |
| ASSY | ASSEMBLY | MIN | MINIMUM |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | MISC | MISCELLANEOUS |
| AUX | AUXILIARY | mm | MILLIMETER |
| AVG | AVERAGE | MTL | METAL |
| AWS | AMERICAN WELDING SOCIETY | | |
| | | N/A | NOT APPLICABLE |
| B PL | BASE PLATE | NEC | NATIONAL ELECTRICAL CODE |
| BLDG | BUILDING | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| BM | BEAM | NIC | NOT IN CONTRACT |
| BGL | BELOW GRADE LEVEL | NO | NUMBER |
| BOS | BOTTOM OF STEEL | NTS | NOT TO SCALE |
| BOT | BOTTOM | | |
| | | OC | ON CENTER |
| C | CHANNEL | OD | OUTSIDE DIAMETER |
| CB | CARRIAGE BOLT | OPP | OPPOSITE |
| CB | CATCH BASIN | OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| CIP | CAST-IN-PLACE | | |
| CJ | CONSTRUCTION JOINT | | |
| CJ | CONTROL JOINT | PERP | PERPENDICULAR |
| CL | CENTER LINE | PL | PROPERTY LINE |
| CLG | CEILING | PLYWD | PLYWOOD |
| CLR | CLEAR | PN | PART NUMBER |
| CMP | CORRUGATED METAL PIPE | POC | POINT OF CONNECTION |
| CMU | CONCRETE MASONRY UNIT | PRELIM | PRELIMINARY |
| CO | CLEANOUT | PREP | PREPARATION |
| COL | COLUMN | PT | PRESSURE TREATED |
| CONFIG | CONFIGURATION | | |
| CONN | CONNECT | QTY | QUANTITY |
| CONT | CONTINUE | | |
| CSK | COUNTER SUNK | R | RADIUS |
| CU | CUBIC | REINF | REINFORCE |
| CU FT | CUBIC FEET | REQD | REQUIRED |
| CU IN | CUBIC INCH | REV | REVISION |
| CU YD | CUBIC YARD | RM | ROOM |
| | | | |
| DBL | DOUBLE | SCHED | SCHEDULE |
| DEG | DEGREE | SF | SQUARE FOOT (FEET) |
| DET | DETAIL | SHT | SHEET |
| DIA | DIAMETER | SIM | SIMILAR |
| DIAG | DIAGONAL | SPEC | SPECIFICATION |
| DIM | DIMENSION | SQ | SQUARE |
| DIR | DIRECTION | SQ IN | SQUARE INCH |
| DJ | DOUBLE JOIST | SQ YD | SQUARE YARD |
| DL | DEAD LOAD | SS | STAINLESS STEEL |
| DP | DIAMOND PLATE | ST | STREET |
| DS | DOWNSPOUT | STA | STATION |
| DWG | DRAWING | STD | STANDARD |
| | | | |
| E | EAST | T&B | TOP AND BOTTOM |
| EA | EACH | T&G | TONGUE AND GROOVE |
| EL | ELEVATION | TEMP | TEMPORARY |
| ELEV | ELEVATION | THK | THICKNESS |
| EMBED | EMBEDMENT | TOB | TOP OF BEAM |
| EP | EDGE OF PAVEMENTS | TOC | TOP OF CONCRETE |
| EQ | EQUAL | TOFF | TOP OF FINISH FLOOR |
| EQUIP | EQUIPMENT | TOF | TOP OF FOOTING |
| ETC | ET CETERA | TOPO | TOPOGRAPHY |
| EW | EACH WAY | TOS | TOP OF SLAB |
| | | TOS | TOP OF STEEL |
| FDN | FOUNDATION | TOW | TOP OF WALL |
| FIN | FINISH | TS | TUBE STEEL |
| FIN .FLR. | FINISH FLOOR | TYP | TYPICAL |
| FIN GR | FINISH GRADE | | |
| FLR | FLOOR | UON | UNLESS OTHERWISE NOTED |
| FOC | FACE OF CONCRETE | | |
| FOS | FACE OF SLAB | VIF | VERIFY IN FIELD |
| FOS | FACE OF STUD | | |
| FOW | FACE OF WALL | W | WATT |
| FRP | FIBERGLASS REINFORCED PLASTIC | W/ | WITH |
| FASTNR | FASTENER | W/O | WITHOUT |
| FT | FOOT (FEET) | WF | WIDE FLANGE |
| FTG | FOOTING | WP | WORKING POINT |
| | | WWF | WELDED WIRE FABRIC |
| | | | |
| GA | GAGE | | |
| GALV | GALVANIZED | ℄ | CENTERLINE |
| GL | GRADE LEVEL / GROUND LEVEL | ℄ | PLATE |
| GLZ | GLAZING | ± | PLUS OR MINUS |
| GSM | GALVANIZED SHEET METAL | (E) | EXISTING |

ABBREVIATIONS

| |
|--|
| GENERAL: THESE PLANS ARE A BUILDER'S SET. DES BUILDERS WAS CONTRACTED TO PROVIDE A BUILDER'S SET WITH THE AGREEMENT THAT AN EXPERIENCED AND KNOWLEDGEABLE CONTRACTOR SHALL CONSTRUCT THIS PROJECT. THE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMIT PURPOSES ONLY AND ARE NOT EXTENSIVELY DETAILED NOR ARE SPECIFICATIONS PROVIDED. FOR ITEMS, METHODS AND/OR MATERIALS NOT SHOWN, THE MINIMUM REQUIREMENT OF THE 2013 CBC SHALL GOVERN. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS, AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS ARE THE SOLE AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY AND INSTALL. THE ENGINEER DOES NOT PROVIDE CONTINUOUS CONSTRUCTION OBSERVATION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY AND CONSTRUCTION STANDARDS FOR THIS PROJECT. THE ENGINEER AND ARCHITECT ARE NOT RESPONSIBLE FOR CONSTRUCTION COST DUE TO REVISIONS TO THE DRAWINGS. |
| JOB SAFETY: THE ENGINEER IS NOT RESPONSIBLE FOR THE FABRICATION, ERECTION, AND/OR JOB SAFETY. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL SAFETY REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL SHORING, BRACING, FORM WORK, ETC., AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THE BUILDING. |
| SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAKE CERTAIN THAT THE SHOP DRAWINGS AND CONSTRUCTION ARE IN CONFORMANCE WITH THE LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS. AT LEAST 3 WEEKS BEFORE FABRICATION, THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO THE ENGINEER / ARCHITECT FOR REVIEW TO DETERMINE GENERAL COMPLIANCE WITH THE DRAWINGS. OUR REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE IN COMPLIANCE WITH THE LATEST DRAWINGS. |
| SITE OBSERVATIONS: THE CONTRACTOR SHALL GIVE ENGINEER 72 HOURS MINIMUM NOTICE AS TO THE TIME OF THE SITE OBSERVATION OR SPECIAL INSPECTION FOR ANY OBSERVATION REQUIRED BY C.B.C. 2013 CHAPTER 17A. ALL WRITTEN SITE OBSERVATIONS / INSPECTIONS REPORTS BY THE REGULATORY AGENCY SHALL BE COPIED TO THE ENGINEER. |
| FOUNDATION: DESIGN WAS BASED ON THE MINIMUM REQUIREMENTS OF CHAPTER 18 IN THE CBC. |
| <div>1. DIMENSIONS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.</div> <div>2. PLAN DIMENSIONS ARE TAKEN FROM FACE OF SURFACE TO FACE OF SURFACE OR GRID LINE.</div> <div>3. PLAN DIMENSIONS ARE TAKEN FROM FACE OF STRUCTURE, FINISH OR GRID LINE, UNLESS OTHERWISE NOTED, TYPICAL FOR FLOOR PLANS AND DETAILS.</div> <div>4. DETAILS ARE DIAGRAMMATICAL AND MAY DIFFER IN SCALE FROM PROPOSED CONDITIONS.</div> <div>5. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.</div> <div>6. DETAILS LABELED TYP (TYPICAL) SHALL BE FABRICATED AT ALL LIKE CONDITIONS THROUGHOUT THE PROJECT UNLESS OTHERWISE NOTED. DETAILS LABELED SIM (SIMILAR) SHALL BE FABRICATED WITH MINOR DIFFERENCES AS SHOWN IN THE DETAIL.</div> <div>7. FOR DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS/DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.</div> <div>8. SHOP DRAWINGS ARE SUPERSEDED BY THESE DRAWINGS UNLESS APPROVED BY ENGINEER.</div> <div>9. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCING ANY WORK.</div> <div>10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS OF FABRICATION. SHORING, SCAFFOLDING, FORMWORK, ETC., MAY REQUIRE ADDITIONAL STRUCTURAL DESIGN.</div> <div>11. THE CONTRACTOR SHALL PROVIDE, LOCATE, AND INSTALL ACCESS PANELS AS REQUIRED AFTER INSTALLATION OF MECHANICAL AND ELECTRICAL WORK.</div> <div>12. ALL EQUIPMENT, DEVICES, FIXTURES AND MATERIALS SHALL BE LISTED BY AN APPROVED TESTING AGENCY.</div> <div>13. ALL MATERIAL SYSTEMS SHALL BE NON-COMBUSTIBLE WITH A FLAME SPREAD RATIO OF 25 OR LESS, SMOKE DEVELOPING RATING OF 50 OR LESS THAN A FUEL CONTRIBUTING OF ZERO.</div> <div>14. CONNECTING HARDWARE SHALL BE RATED FOR OPERATION UNDER AMBIENT CONDITIONS OF -40 TO 140 DEGREES FAHRENHEIT AND IN THE RANGE OF 0 TO 100 PERCENT RELATIVE HUMIDITY.</div> <div>15. THE SITE PLAN IS NOT BASED ON A SURVEY AND SHALL ONLY BE USED FOR THE SCOPE OF WORK SHOWN IN THESE DRAWINGS.</div> <div>16. FABRICATED STEEL PARTS, PIPE, BOLTS, PLATE WASHERS AND STEEL SECTIONS SHALL BE HOT DIPPED GALVANIZED. SHEET METAL SHALL BE GALVANIZED.</div> |
| GENERAL NOTES |
| <div>1. ADDITIONAL CONTRACTOR SUBMITTALS: UPON REQUEST, CERTIFICATION THAT THE MATERIALS BEING USED MEET THE REQUIREMENTS SPECIFIED.</div> <div>2. MANUFACTURER'S DATA FOR: GROUTS AND EPOXIES, PREFAB. WOOD TRUSSES, CALCULATIONS AND DRAWINGS.</div> <div>3. OBSERVATION: THE ENGINEER WILL VISIT THE PROJECT SITE AS DICTATED BY CONSTRUCTION PROGRESS TO MAKE GENERAL OBSERVATIONS ON THE WORK FOR GENERAL CONFORMANCE TO THE DESIGN INTENT.</div> <div>4. GENERAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF ALL MATERIALS USED ON THE PROJECT AND SHALL BEAR THE BURDEN OF PROOF THAT THE MATERIALS USED COMPLY WITH THE PROJECT REQUIREMENTS.</div> |
| QUALITY ASSURANCE |


| | | | |
|--|--|----------------|----------------|
| CODE | CALIFORNIA BUILDING CODE (CBC), 2013 EDITION. | | |
| RESOURCE | ASCE/SEI 7-10 (FOR SEISMIC) | | |
| BUILDING DATA: | TABLE VALUE | | |
| OCCUPANCY GROUP: | S-2 | | |
| CONSTRUCTION TYPE | N/A | | |
| FIRE SPRINKLERS | FIRE SPRINKLERS ARE NOT REQUIRED | | |
| DESIGN LOADS | | | |
| FLOOR LOAD | N/A | | |
| ROOF LOAD | N/A | | |
| GROUND SNOW LOAD P_g = | N/A | | |
| BASIC WIND SPEED | 110 | | |
| WIND EXPOSURE | C | | |
| SEISMIC DESIGN CATEGORY | D | | |
| SITE CLASS | D | | |
| FLOOD DESIGN LOAD | | | |
| SEISMIC IMPORTANCE FACTOR= | I=1.0 | | |
| SEISMIC OCCUPANCY GROUP | III TABLE 1-1 | | |
| MAPPED SPECTRAL RESPONSE ACCELERATIONS | | | |
| S_s =1.500 g | S_{ms} =1.500 g | S_d =1.000 g | S_1 =0.600 g |
| SM_1 =0.900 g | S_{d1} =0.600 g | | |
| SPECTRAL RESPONSE COEFFICIENTS | | | |
| | | F_a =1.0 | F_v =1.5 |

DESIGN CRITERIA



Diamond Engineering Services

4255 PARK ROAD
BENICIA, CA 94510
TEL: 707-304-3351



wireless

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

VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

GENERAL NOTES AND
ABBREVIATIONS

| REVISIONS | DESCRIPTION | DATE | | No. | D | E | F | G | H | J |
|-----------|-------------|------------------|------------|-----|---|---|---|---|---|---|
| | | FOR REVIEW | 07-24-2014 | | | | | | | |
| | | FOR REVIEW | 08-01-2014 | | | | | | | |
| | | FOR REVIEW | 08-04-2014 | | | | | | | |
| | | FOR REVIEW | 08-08-2014 | | | | | | | |
| | | PER PLAN COMMENT | 02-09-2015 | | | | | | | |
| | | PER PLAN COMMENT | 02-17-2015 | | | | | | | |

Job No.: N14027

Draw/Check By: BLL / EKU

G1

IT(S) PER TITLE REPORT:

ERS CONTAINED IN THAT CERTAIN DOCUMENT
: GRANT DEED
JULY 30, 1951
D BY: HENRY H. BULL, UNMARRIED MAN AND CITY AND COUNTY OF SAN FRANCISCO, A MUNICIPAL
TION
V6 DATE: AUGUST 1, 1951
V6 NO.: BOOK 2259, PAGE 187 OF OFFICIAL RECORDS
CE IS HEREBY MADE TO SAID DOCUMENT FOR FULL PARTICULARS.
ITTED AS SHOWN HEREON ***

ERS CONTAINED IN THAT CERTAIN DOCUMENT
: GRANT DEED
JULY 31, 1951
D BY: LOUISE C.CHACE AND J. D. CHACE, HER HUSBAND AND THE CITY AND COUNTY OF SAN FRANCISCO, A
L CORPORATION
V6 DATE: AUGUST 6, 1951
V6 NO.: BOOK 2262, PAGE 31 OF OFFICIAL RECORDS
CE IS HEREBY MADE TO SAID DOCUMENT FOR FULL PARTICULARS.
ITTED AS SHOWN HEREON ***

WNERSHIP OF SAID LAND DOES NOT INCLUDE RIGHTS OF ACCESS TO OR FROM THE STREET, HIGHWAY,
WAY ABUTTING SAID LAND, SUCH RIGHTS HAVING BEEN RELINQUISHED BY THE DOCUMENT,
V6 DATE: JANUARY 26, 1959
V6 NO.: BOOK 4302, PAGE 186 OF OFFICIAL RECORDS
ITTED AS SHOWN HEREON ***

EMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS DELINEATED OR AS
FOR DEDICATION, ON THE MAP OF SAID TRACT/PLAT;
: INGRESS AND EGRESS
AS SHOWN ON MAP
ITTED AS SHOWN HEREON ***

EMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS RESERVED IN A DOCUMENT;
D BY: RICHARD T. PERRY, TRUSTEE OF SUCCESSOR TRUSTEE UNDER THE TRUST AGREEMENT DATED JULY 20,
CHARD T. PERRY SEPARATE PROPERTY TRUST) AND AS AMENDED AS TO AN 1/2 INTEREST AND JOHN
E, TRUSTEE OR SUCCESSOR TRUSTEE UNDER THE TRUST AGREEMENT DATED JULY 20, 1977 (JOHN ARRILLAGA
E PROPERTY TRUST) AND AS AMENDED AS TO AN UNDIVIDED 1/2 INTEREST.
: INGRESS AND EGRESS
V6 DATE: JANUARY 13, 1978
V6 NO.: BOOK D404, PAGE 425 OF OFFICIAL RECORDS
ITTED AS SHOWN HEREON ***

INRECORDED LEASE WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS SET FORTH THEREIN AS
D BY THE DOCUMENT
: SUBORDINATION, NON-DISTURBANCE AND ATTORNMEN AGREEMENT
NORTH MARY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY
APPLE INC, A CALIFORNIA CORPORATION
V6 DATE: AUGUST 24, 2012
V6 NO.: INSTRUMENT NO. 21820556 OF OFFICIAL RECORDS
EMENT RECORDED AUGUST 24, 2012 AT INSTRUMENT NO. 21820556 WHICH STATES THAT SAID LEASE HAS
CE SUBORDINATE TO THE DOCUMENT
: DEED OF TRUST
V6 DATE: JUNE 1, 1990
V6 NO.: INSTRUMENT NO. 10543742, BOOK L375, PAGE 978 OF OFFICIAL RECORDS
T PLOTTABLE-EXACT LOCATION IS NOT DEFINED BY RECORD ***

INRECORDED LEASE WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS SET FORTH THEREIN AS
D BY THE DOCUMENT
: NOTICE OF NONRESPONSIBILITY
NORTH MARY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY
APPLE CORPORATION, A CALIFORNIA CORPORATION
V6 DATE: JANUARY 17, 2014
V6 NO.: INSTRUMENT NO. 22500548 OF OFFICIAL RECORDS
T PLOTTABLE-EXACT LOCATION IS NOT DEFINED BY RECORD ***

D. LESSEE LEASE/LICENSE AREA DESCRIPTION:

T PORTION OF THE HEREON DESCRIBED LESSOR'S PROPERTY, SITUATE IN THE CITY OF SUNNYVALE, COUNTY OF
LARA, STATE OF CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

CING AT THE NORTHWESTERLY MOST CORNER OF SAID PROPERTY, THENCE ALONG A CURVE, CONCAVE TO THE
HAVING A RADIUS OF 548.03 FEET, THROUGH A CENTRAL ANGLE OF 3°20'19", FOR AN ARC DISTANCE OF 31.93
ENCE S 11°56'04" E, A DISTANCE OF 0.91 FEET TO THE POINT OF BEGINNING;

1) N 74°52'14" E, A DISTANCE OF 41.00 FEET;
2) S 15°07'46" E, A DISTANCE OF 12.83 FEET TO POINT 'A';
3) CONTINUING S 15°07'46" E, A DISTANCE OF 9.00 FEET;
4) S 74°52'14" W, A DISTANCE OF 41.00 FEET;
5) N 15°07'46" W, A DISTANCE OF 21.83 FEET TO THE POINT OF BEGINNING.

NG 895 SQUARE FEET, MORE OR LESS.

D. LESSEE NON-EXCLUSIVE ACCESS AND UTILITY ROUTE DESCRIPTION:

OOT WIDE NON-EXCLUSIVE ROUTE FOR INGRESS, EGRESS AND UTILITY PURPOSES, LYING 2.50 FEET ON EACH
THE FOLLOWING DESCRIBED CENTERLINE:

IG AT THE HEREINBEFORE DESCRIBED POINT 'A';

1) S 15°07'46" E, A DISTANCE OF 11.50 FEET;
2) S 74°52'14" W, A DISTANCE OF 36.75 FEET TO POINT 'B' AND THE TERMINUS OF THIS DESCRIPTION.

R WITH A 12.00 FOOT WIDE NON-EXCLUSIVE ACCESS ROUTE FOR INGRESS AND EGRESS PURPOSES, LYING 6.00
EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

IG AT THE HEREINBEFORE DESCRIBED POINT 'B';

1) S 28°24'08" E, A DISTANCE OF 42.92 FEET;
2) S 73°24'08" E, A DISTANCE OF 115.28 FEET;
3) S 28°24'08" E, A DISTANCE OF 14.50 FEET;
4) S 16°35'52" W, A DISTANCE OF 48.67 FEET;
5) S 73°24'08" E, A DISTANCE OF 48.67 FEET;
6) S 28°24'08" E, A DISTANCE OF 23.00 FEET;
7) S 16°35'52" W, A DISTANCE OF 188.21 FEET TO THE SOUTH LINE OF SAID LESSOR'S
PROPERTY AND THE TERMINUS OF THIS DESCRIPTION.

D. LESSEE UTILITY ROUTE DESCRIPTION:

OOT WIDE NON-EXCLUSIVE UTILITY ROUTE FOR TELCO AND POWER PURPOSES, LYING 2.50 FEET ON EACH SIDE
FOLLOWING DESCRIBED CENTERLINE:

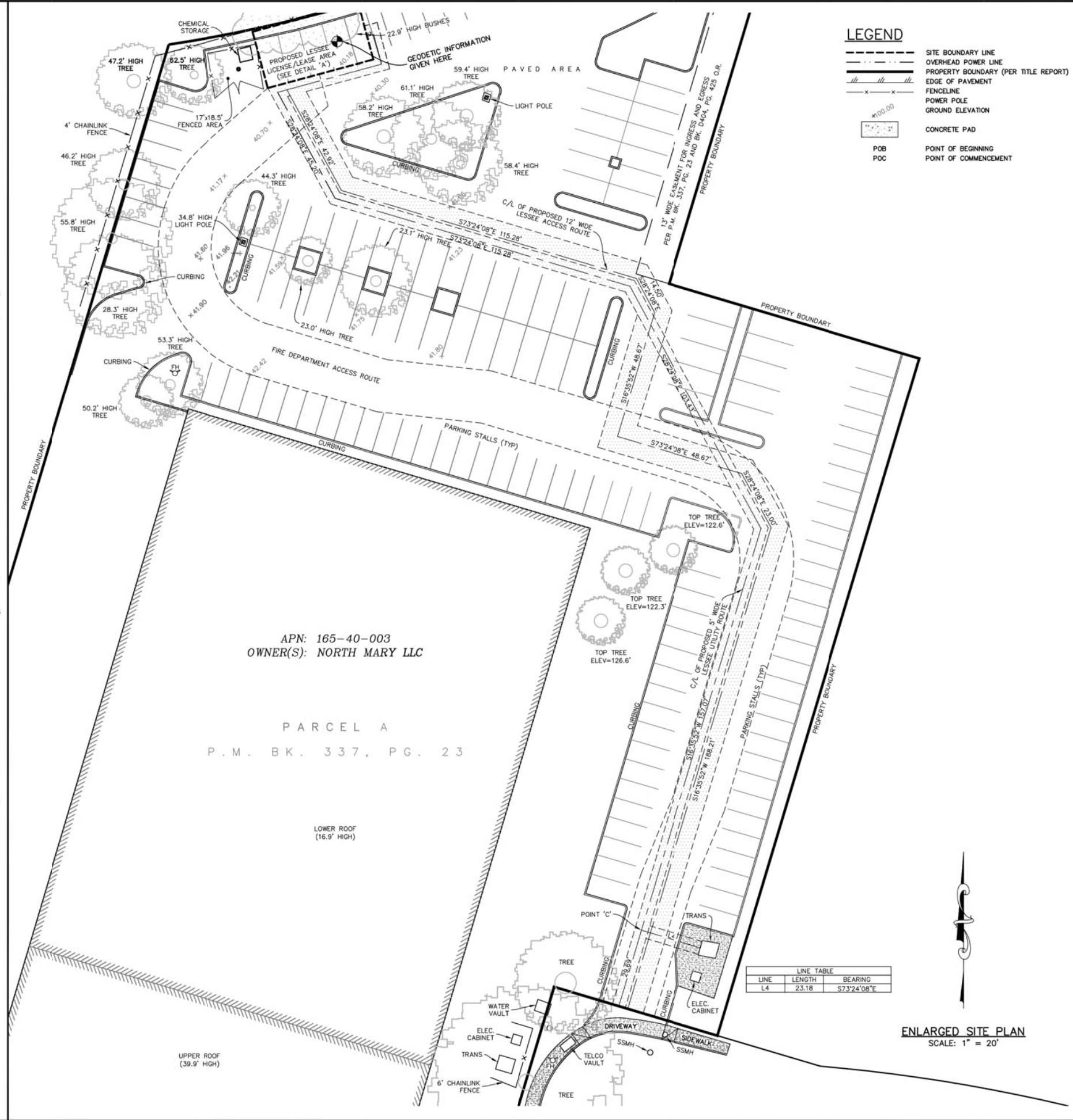
IG AT THE HEREINBEFORE DESCRIBED POINT 'B';

2) S 28°24'08" E, A DISTANCE OF 45.20 FEET;
3) S 73°24'08" E, A DISTANCE OF 115.29 FEET;
4) S 28°24'08" E, A DISTANCE OF 103.43 FEET;
5) S 16°35'52" W, A DISTANCE OF 157.07 FEET TO POINT 'C';
6) CONTINUING S 16°35'52" W, A DISTANCE OF 29.69 FEET TO THE SOUTH LINE OF
SAID LESSOR'S PROPERTY AND THE TERMINUS OF THIS DESCRIPTION.

R WITH A 5.00 WIDE NON-EXCLUSIVE UTILITY ROUTE FOR POWER PURPOSES, LYING 2.50 FEET ON EACH OF
LOWING DESCRIBED CENTERLINE:

IG AT THE HEREINBEFORE DESCRIBED POINT 'C';

1) S 73°24'08" E, A DISTANCE OF 23.18 FEET TO THE TERMINUS OF THIS DESCRIPTION.



NSA Wireless, Inc.
2010 Crow Canyon Place, Ste. 355
San Ramon, CA 94583
Office: 925-244-1890 Fax: 925-355-0672

SMITHCO
SURVEYING ENGINEERING
P.O. BOX 81626 BAKERSFIELD, CA 93380
PHONE: (661) 393-1217 FAX: (661) 393-1218

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SURVEYOR'S SEAL AND SIGNATURE

| REVISION | | | |
|----------|---------------|----|----------|
| NO. | DESCRIPTION | BY | DATE |
| 0 | PRELIM. ISSUE | SL | 05/21/14 |
| 1 | LEASE/ESMNTS | SL | 07/23/14 |
| 2 | TITLE REVIEW | SL | 07/31/14 |
| 3 | LEASE/ESMNTS | SL | 08/06/14 |
| 4 | ACCESS/FIRE | SL | 01/06/15 |
| | | | |
| | | | |

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DRAWN BY: SL
CHECKED BY: GJS
DATE DRAWN: 05/21/14
SMITHCO JOB #: 88-001

SITE NAME

277666
HWY 101 & 237

SITE ADDRESS

787 NORTH MARY AVENUE
SUNNYDALE, CA 94085
SANTA CLARA COUNTY

SHEET TITLE

SITE SURVEY

FOR EXAMINATION ONLY
SHEET

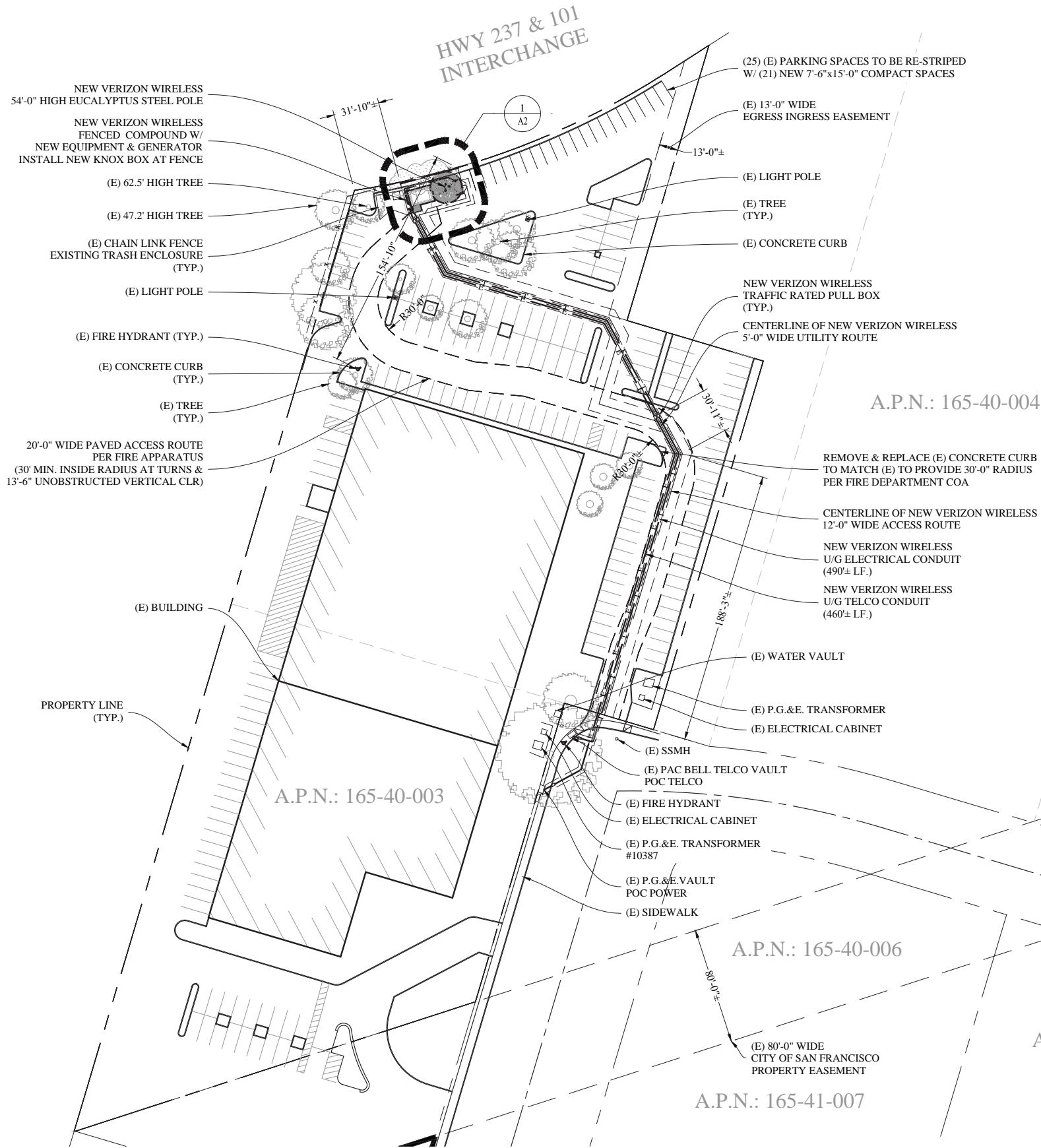
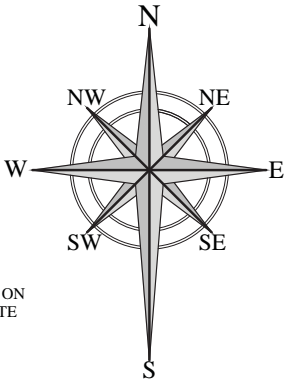
C-2



4255 PARK ROAD
BENICIA, CA 94510
TEL: 707-304-3351



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



NOTES:

PRIOR TO ANY COMBUSTIBLE CONSTRUCTION OR MATERIALS ON SITE, PROVIDE FIRE ACCESS DRIVES AND OPERATIONAL ON-SITE FIRE PROTECTION SYSTEMS.

PARKING

EXISTING PARKING SPACES AVAILABLE
PARKING SPACES = 164
ACCESSIBLE SPACES = 4

PROPOSED PARKING SPACES AVAILABLE AFTER RE-STRIPING
PARKING SPACES = 160
ACCESSIBLE SPACES = 4

(5) PARKING SPACES SHALL BE REMOVED TO ACCOMMODATE THE NEW VERIZON WIRELESS LEASE AREA. HOWEVER, THERE WILL BE ONLY A NET LOSS OF (4) SPACES AFTER RE-STRIPING.

1 SITE PLAN

SCALE: 40'-0"=1'-0"

VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

SITE PLAN

| No. | DESCRIPTION | REVISIONS | | | | | |
|-----|------------------|------------|--|--|--|--|--|
| | | DATE | | | | | |
| D | FOR REVIEW | 07-24-2014 | | | | | |
| E | FOR REVIEW | 08-01-2014 | | | | | |
| F | FOR REVIEW | 08-04-2014 | | | | | |
| G | FOR REVIEW | 08-08-2014 | | | | | |
| H | PER PLAN COMMENT | 02-09-2015 | | | | | |
| J | PER PLAN COMMENT | 02-17-2015 | | | | | |

Job No.: N14027
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A1



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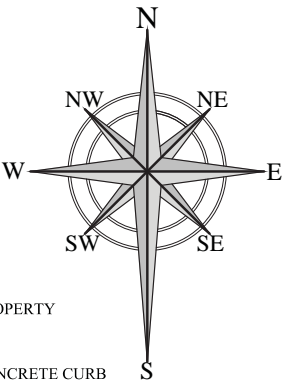
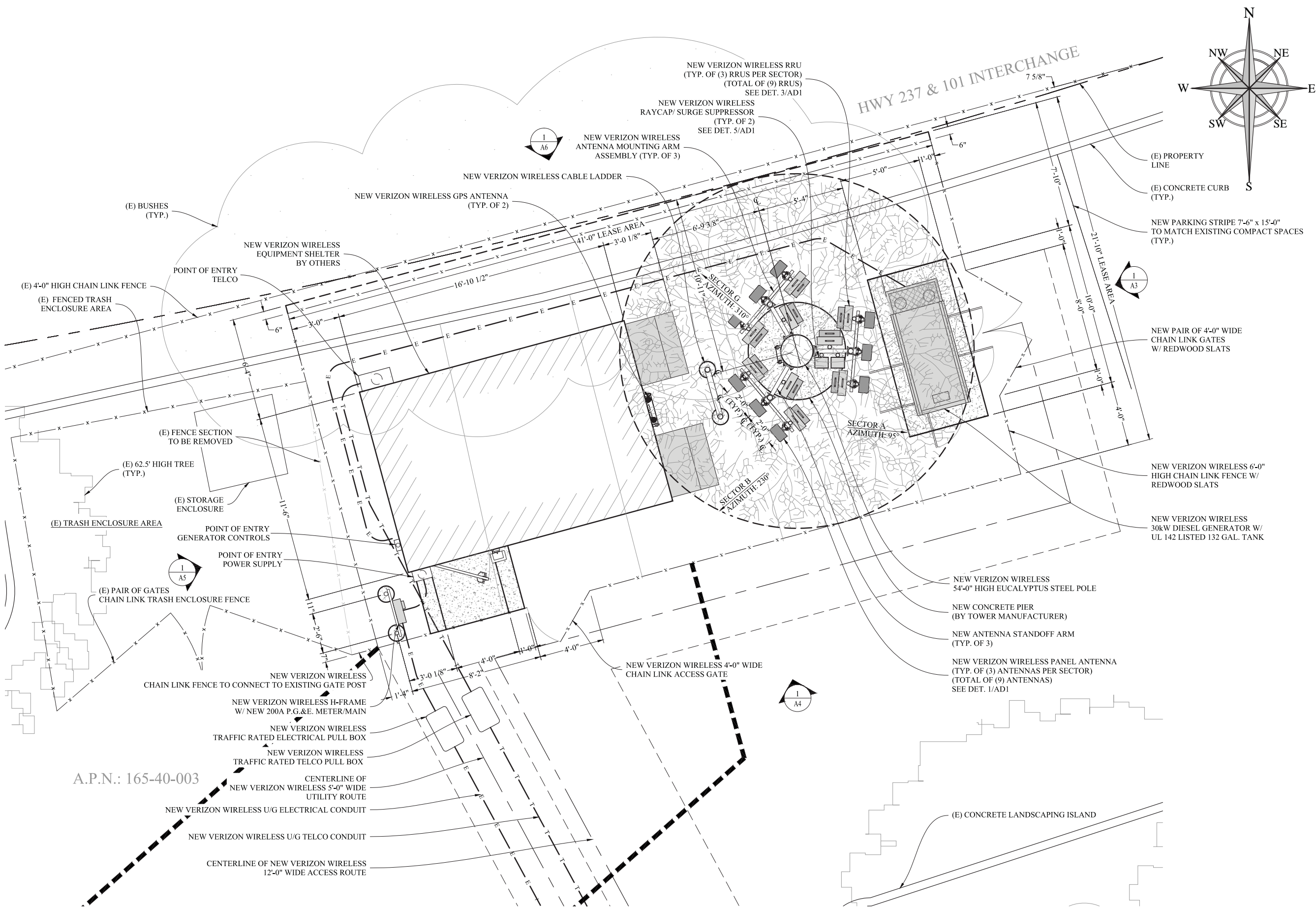
VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

EQUIPMENT PLAN

| REVISIONS | | DATE |
|-----------|------------------|------------|
| No. | DESCRIPTION | |
| D | FOR REVIEW | 07-24-2014 |
| E | FOR REVIEW | 08-01-2014 |
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| J | PER PLAN COMMENT | 02-17-2015 |

Job No.: N14027
Draw/Check By: BLL / EKV

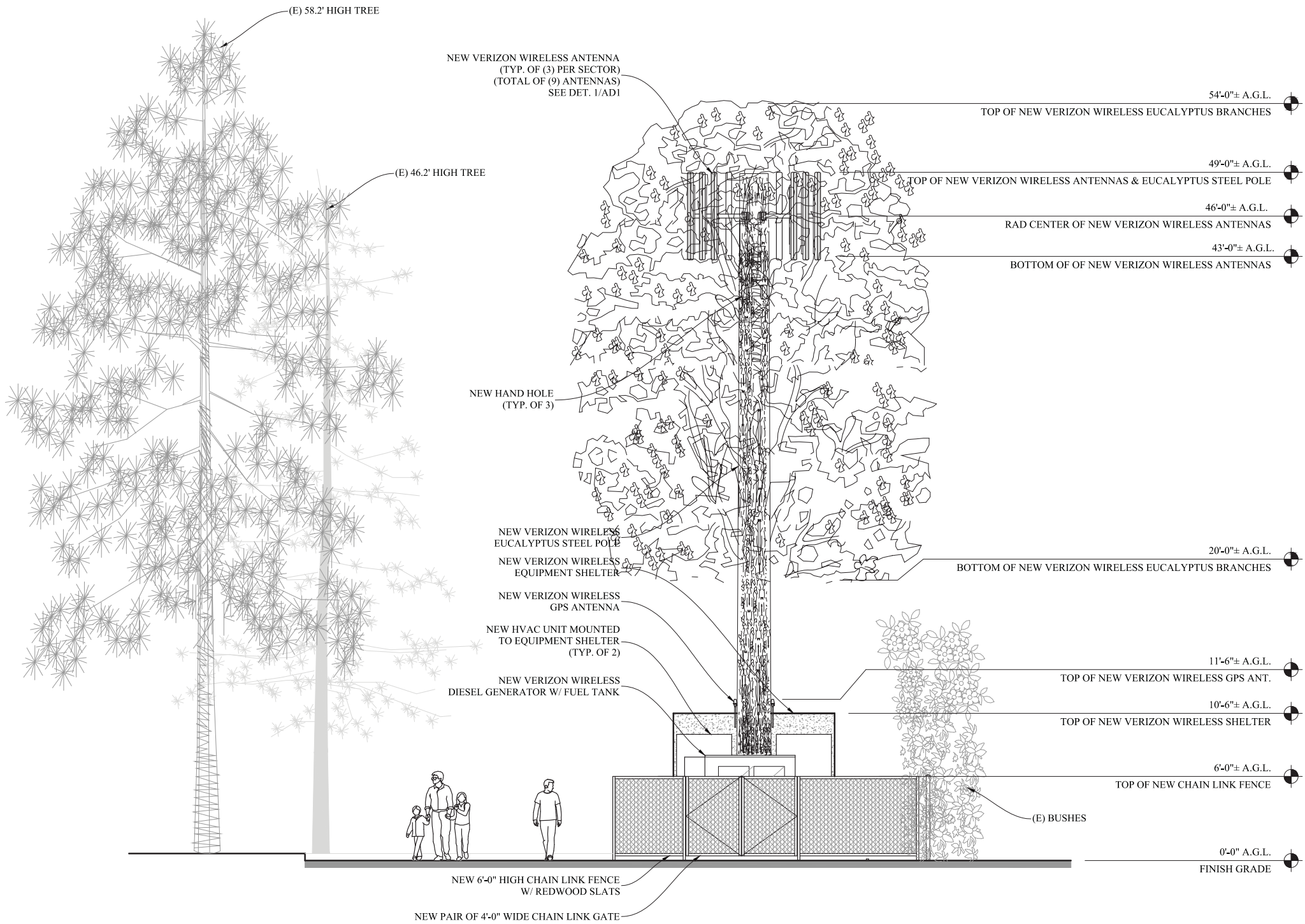
A2



A.P.N.: 165-40-003

1 EQUIPMENT PLAN

SCALE: 3/8"=1'-0"



1 NORTH EAST ELEVATION

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



DIAMOND ENGINEERING SERVICES
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BENICIA, CA 94510
TEL: 707-304-3351



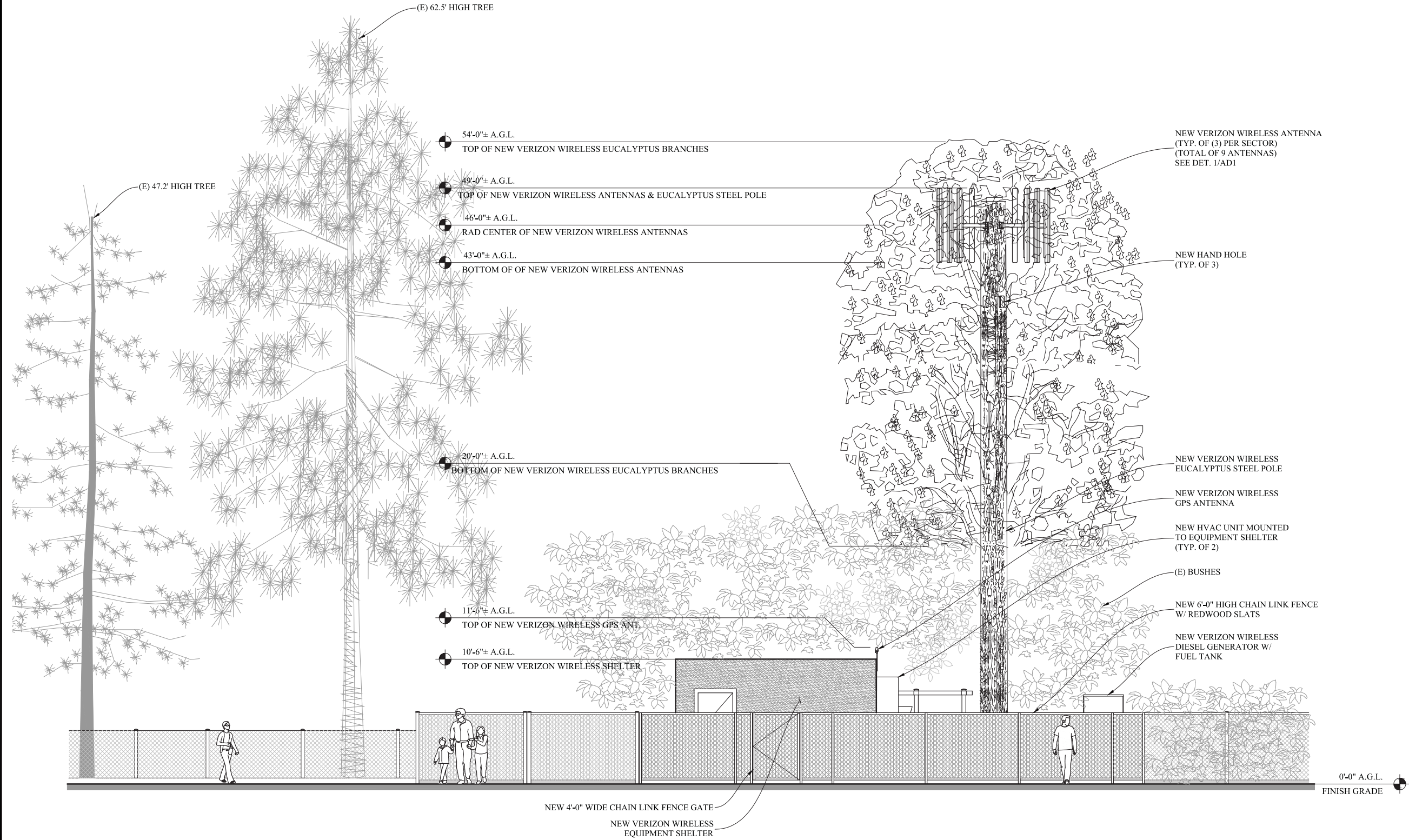
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VERIZON WIRELESS
HWY 101 & 237 PSL#277666
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SUNNYVALE, CA 94085

NORTH EAST
ELEVATION

| No. | DESCRIPTION | REVISIONS | |
|-----|------------------|------------|--|
| | | DATE | |
| D | FOR REVIEW | 07-24-2014 | |
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| G | FOR REVIEW | 08-08-2014 | |
| H | PER PLAN COMMENT | 02-09-2015 | |
| J | PER PLAN COMMENT | 02-17-2015 | |

Job No.: N14027
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1 SOUTH EAST ELEVATION

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



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FAX: (925) 904-3513

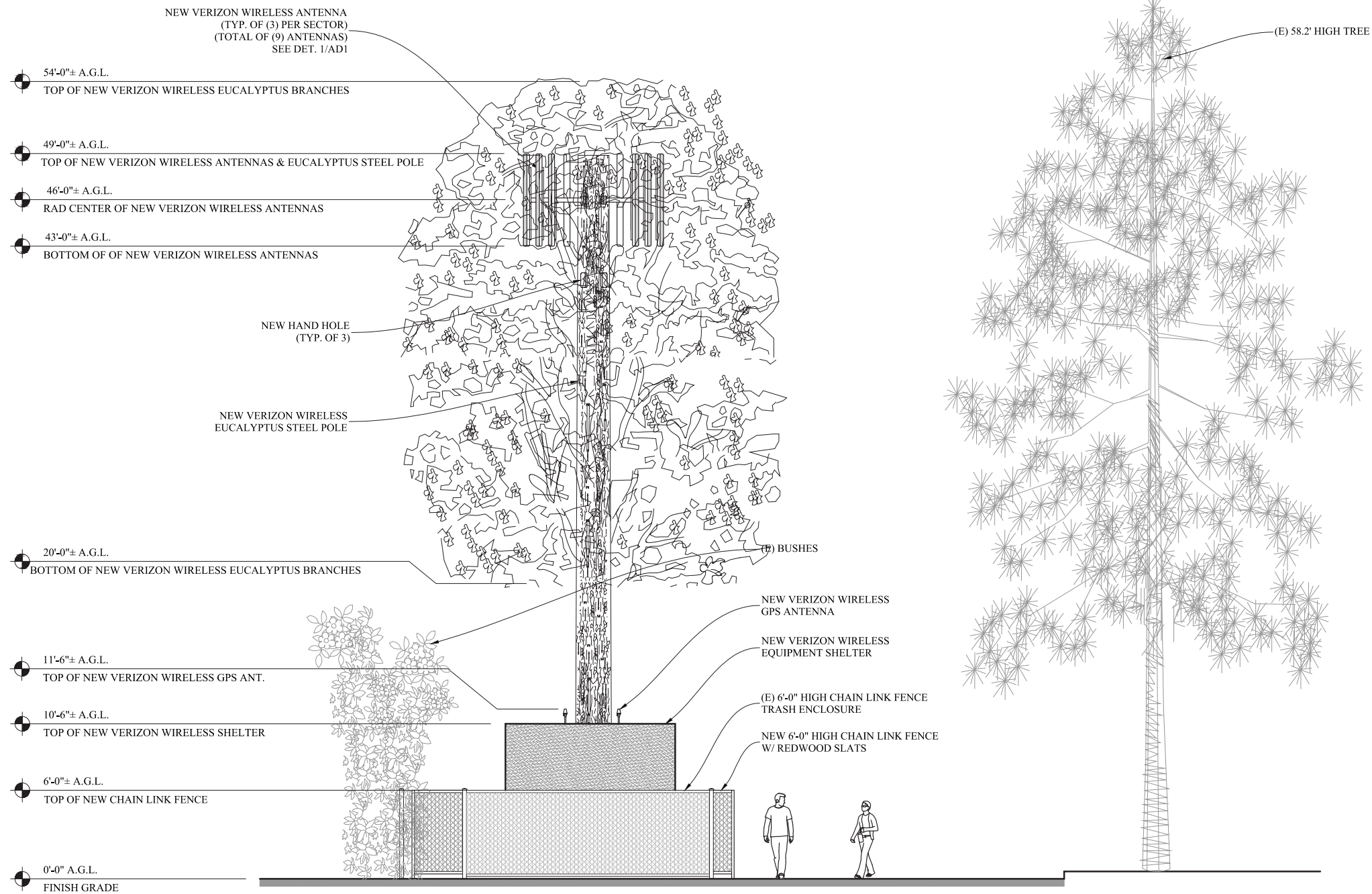
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HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

**SOUTH EAST
ELEVATION**

| No. | DESCRIPTION | REVISIONS | |
|-----|------------------|------------|--|
| | | DATE | |
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| J | PER PLAN COMMENT | 02-17-2015 | |

Job No.:
N14027

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1 SOUTH WEST ELEVATION

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



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VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

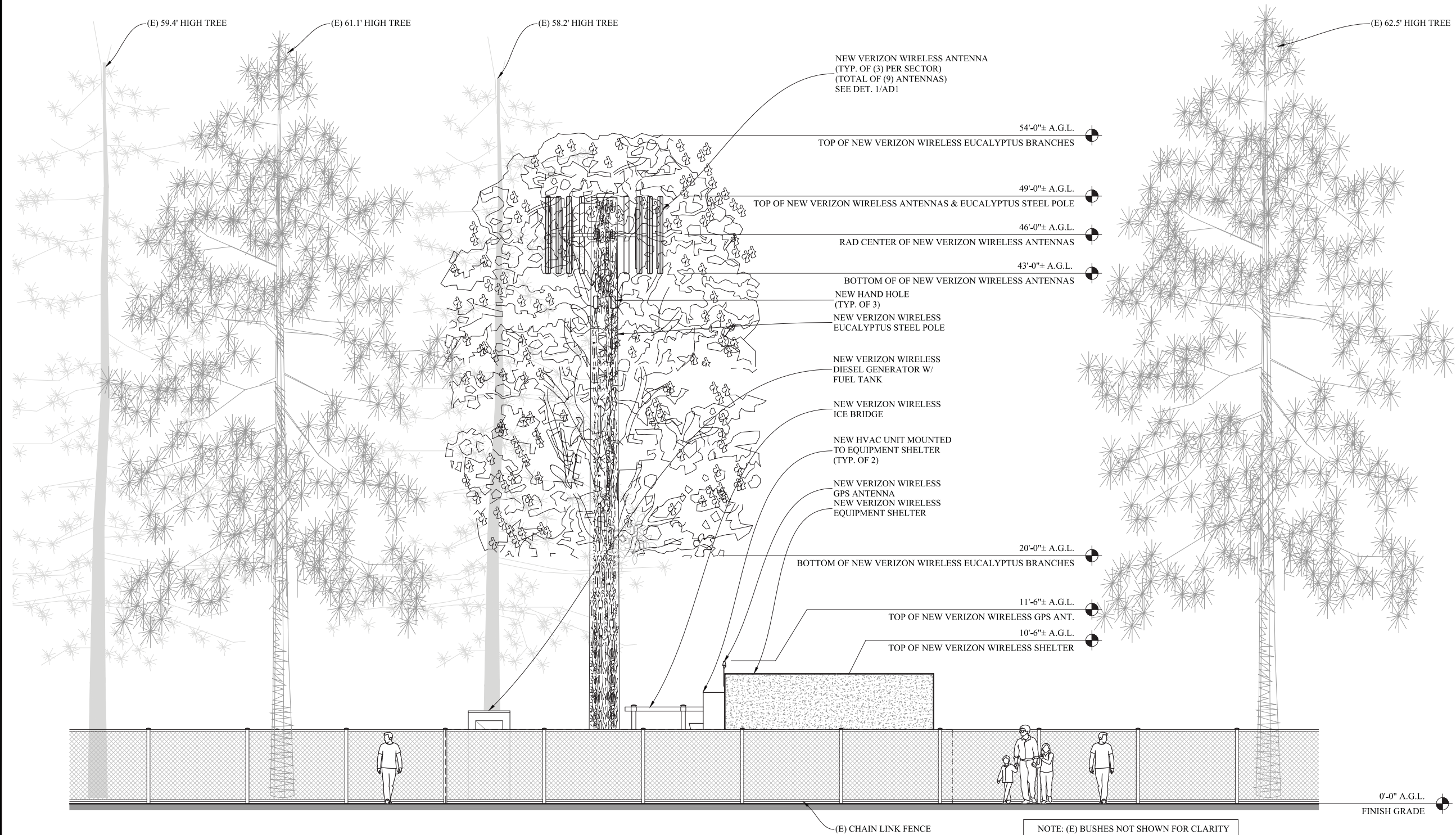
SOUTH WEST
ELEVATION

| No. | DESCRIPTION | REVISIONS | |
|-----|------------------|------------|--|
| | | DATE | |
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1 NORTH WEST ELEVATION

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



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VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

NORTH WEST
ELEVATION

| No. | DESCRIPTION | REVISIONS | |
|-----|------------------|------------|--|
| | | DATE | |
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Job No.:
N14027

Draw/Check By:
BLL / EKU

LEGEND:

1. WAVE GUIDE ENTRY PORT

2. MASTER GROUND BAR

3. TELCO ENTRANCE PANEL (4' X 8' X 3/4")

4. a)GNB 3-75A27 BATTERY MODULES (6V - 1015 AH)

b)GNB 3-90A27 BATTERY MODULES (6V - 1140 AH)

c)GNB 3-85A29 BATTERY MODULES (6V-1210 AH) MUST BE STACKED

d)POWERSAFE VH-34 BATTERY MODULES (2V - 1040 AH)

e)CAD HD1100 BATTERY MODULES (6V - 1100 AH)

5. AIR CONDITIONING UNIT

6. SECONDARY AC POWER DISTRIBUTION PANEL

7. TRANSFER SWITCH (MANUAL OR AUTOMATIC)

8. MAIN AC POWER DISTRIBUTION PANEL

9. COMMERCIAL POWER DISCONNECT SWITCH

10. FENVAL FIRE ALARM PANEL

11. ALARM TERMINAL CABINET

12. IRRIGATION CONTROLLER

13. HALON GAS STORAGE TANK/FM200 TANK

14. +24V POWER BUSBAR

15. -48V POWER BUSBAR

16. LIGHTNING ARRESTOR

17. ELECTROSTATIC DISCHARGE MAT (ESD MAT)

18. SNAP CONNECTOR FOR ESD MAT

19. TIME CLOCK PANEL

20. AIR CONDITIONING CONTROL PANEL

21. THERMOSTAT

22. EXHAUST FAN CONTROL PANEL

23. SURGE ARRESTOR

24. DEHYDRATOR

25. TRANSFORMER

26. FIRE EXTINGUISHER

27. EXHAUST FAN

28. AIR INTAKE

29. APPLETON PLUG

NOTES:

EFP = EQUIPMENT FLOOR PLAN

PPD = POWER PLANT DETAILS

EQR = EQUIPMENT RACK PROFILES

SID = SITE INTERCONNECT DETAILS

— = FUTURE

— = EQUIPPED

REVISIONS

PROJ. NO: 201

REV: X

ESS: 10/25/15

ENGR

APRV

AMA

PBM +24V MODULAR POWER BAY

PB +24V STANDARD POWER DISTRIBUTION BAYS (E/W LORAIN RL200F25 RECTIFIERS)

PBR LORAIN RL200F25 RECTIFIER BAY

MISC MISCELLANEOUS BAY

AIF AT&T ANTENNA INTERFACE FRAME

RCF AT&T RADIO CHANNEL FRAME

LAF AT&T LINEAR AMPLIFIER FRAME

MW MICROWAVE BAY

CDPD CELLULAR DIGITAL PACKET DATA

△ DENOTES FRONT OF BAY LINEUP

verizon

wireless

ECP: SUNNYVALE

DCS: X

REGION: X AREA: SUNNYVALE

LOCATION CODE: 277666

SWITCH SITE NO: X

SITE NAME: HWY 101 & 237

3 LEGEND & NOTES

24 x 36 SCALE: NONE

16'-10 1/2"

15'-10"

8"

11'-6"

10'-5 1/2"

1'-7 1/8"

CAD 4800W 24A100P 480VA

CAD 680AH 24A100P 480VA W/ GS NE-S (-48V) (1)

LTE #2 (E)

LTE #1 (E)

MISC (D)

RAYCAP

RAYCAP

①

②

③

④

⑤

⑥

TYPICAL PRE-FAB BUILDING EQUIPMENT LAYOUT (16'-0" X 11'-6")

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

PBM = GE NE-S -48V

BATT = CAD 2V

MOD CELL #1 = INDOOR 850 VERSION 4.0B

MOD CELL #2 = INDOOR 1900 VERSION 4.0B

SITE HAS PERM GENERATOR

| SYM | WIDTH | DEPTH | HEIGHT |
|-----|-----------|-----------|--------|
| A | 2'-1" | 1'-8 1/2" | 7'-0" |
| B | 2'-1" | 1'-3" | 7'-0" |
| C | 2'-0" | 2'-0" | 6'-2" |
| D | 1'-8 1/2" | 1'-3" | 7'-0" |
| DI | 2'-0 1/2" | 1'-3" | 7'-0" |
| E | 2'-0" | 1'-7" | 4'-9" |
| F | 2'-0" | 2'-1 1/4" | 7'-0" |
| G | 2'-0" | 2'-0" | 7'-0" |
| H | 2'-6" | 3'-6" | 7'-0" |
| I | 2'-4" | 2'-1 1/4" | 7'-0" |
| J | 1'-9" | 2'-1 1/4" | 6'-9" |

SHEET 1

ISSUE X

1 EQUIPMENT LAYOUT

24 x 36 SCALE: 1/4"=1'-0"

16'-10 1/2"

15'-10"

8"

11'-6"

10'-5 1/2"

1'-7 1/8"

CAD 4800W 24A100P 480VA

CAD 680AH 24A100P 480VA W/ GS NE-S (-48V) (1)

LTE #2 (E)

LTE #1 (E)

MISC (D)

RAYCAP

RAYCAP

①

②

③

④

⑤

⑥

TYPICAL PRE-FAB BUILDING EQUIPMENT LAYOUT (16'-0" X 11'-6")

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

NOTES: UNLESS OTHERWISE SPECIFIED

1. BOTTOM OF CABLE TRAY IS 8'-0" ABOVE FINISHED FLOOR.

SHEET 2

ISSUE X

2 CABLE TRAY LAYOUT

24 x 36 SCALE: 1/4"=1'-0"

DESIGN

DIAMOND ENGINEERING SERVICES

4255 PARK ROAD

BENICIA, CA 94510

TEL: 707-304-3351

verizon

wireless

2785 MITCHELL DRIVE

WALNUT CREEK, CA

94598TEL: (925) 904-3533

FAX: (925) 904-3513

VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

EQUIPMENT & CABLE TRAY LAYOUTS

| No. | DESCRIPTION | REVISIONS | |
|-----|------------------|------------|--|
| | | DATE | |
| D | FOR REVIEW | 07-24-2014 | |
| E | FOR REVIEW | 08-01-2014 | |
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| G | FOR REVIEW | 08-08-2014 | |
| H | PER PLAN COMMENT | 02-09-2015 | |
| J | PER PLAN COMMENT | 02-17-2015 | |


Job No.: N14027
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A7



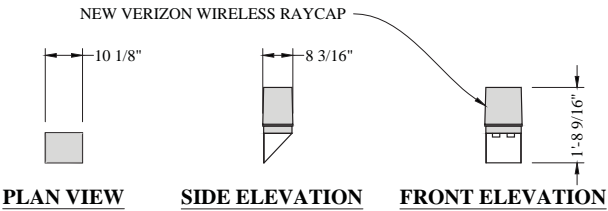
DIAMOND ENGINEERING SERVICES

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BENICIA, CA 94510
TEL: 707-304-3351
FAX: 707-304-3351

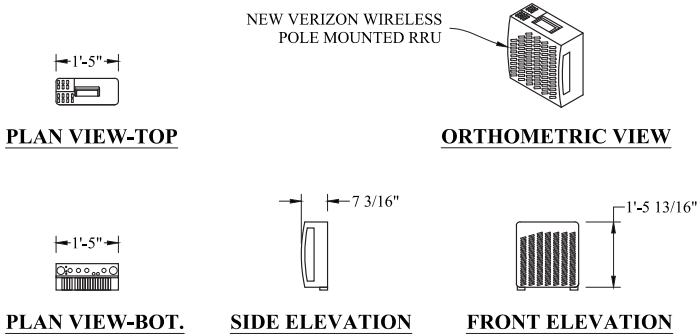


verizon wireless

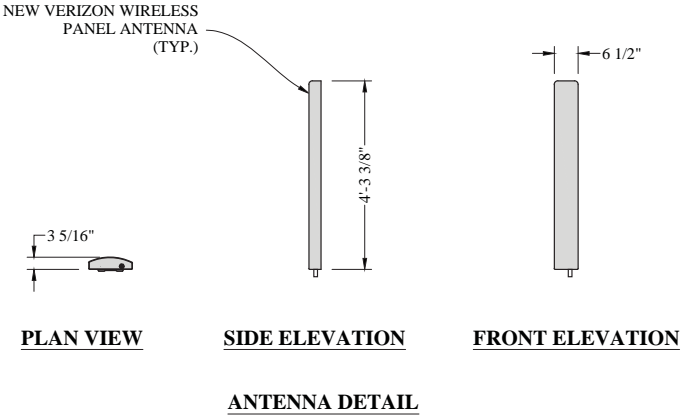
2785 MITCHELL DRIVE
WALNUT CREEK, CA
94598 TEL: (925) 904-3533
FAX: (925) 904-3513



| <u>RAYCAP DETAIL</u> | | | |
|----------------------|--------|----------|--------|
| RAYCAP DATA | | | |
| DIMENSIONS: | WIDTH | DEPTH | HEIGHT |
| | 10.15" | 8.2" | 20.58" |
| TOTAL WEIGHT | | 14.0 LBS | |
| | | | |



| RRU DATA | | | |
|--------------------|-------|---------------|--------|
| DIMENSIONS: | WIDTH | DEPTH | HEIGHT |
| | 17" | 7.2" | 17.8" |
| POWER CONSUMPTION: | | 200 WATTS | |
| TOTAL WEIGHT: | | 55 LBS | |
| TEMPERATURE: | | -40° TO 55° C | |



| ANTENNA DATA DIMENSIONS | | | |
|---|----------|--------|---------|
| HBX-6516DS - AIM | Inches | mm | COMMENT |
| DEPTH | 3.3" | 83.0 | |
| LENGHT | 51.4" | 1306.0 | |
| WITDH | 6.5" | 166.0 | |
| NET WEIGHT | 10.4 lbs | 4.7 kg | |
| INCLUDED PARTS: | | | |
| DB380-3 PIPE MOUNTING KIT 2.4 - 4.5 in. NOMINAL O.D. ROUND MEMBERS | | | |
| DB5083D DOWN TILT MOUNTING KIT 2.4 - 4.5 in. NOMINAL O.D. ROUND MEMBERS | | | |

NOTE: SEE ANTENNA MANUFACTURER DATA SHEETS FOR BILL OF MATERIALS FOR ACCESSORY PARTS

5 RAYCAP DETAIL

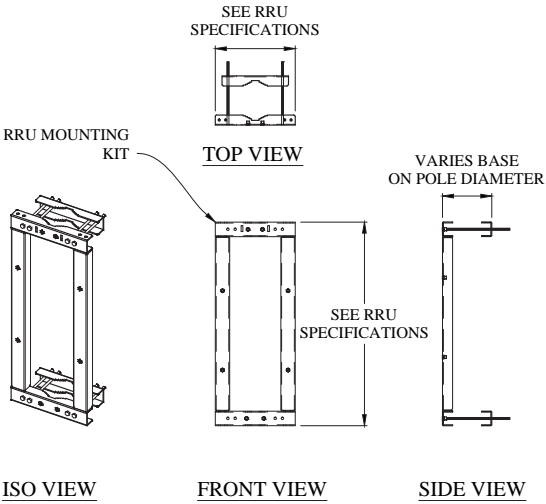
SCALE: 1/2"=1'-0"

3 RRU DETAIL

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

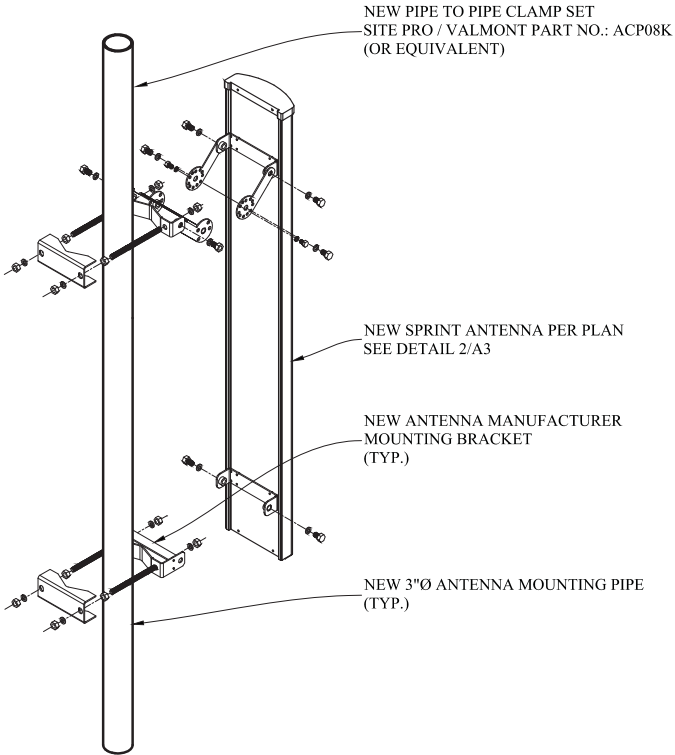
1 ANTENNA DETAIL

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



4 RRU MOUNTING FRAME

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



2 ANTENNA MOUNTING DETAIL

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

VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

ANTENNA, RRU & RAYCAP
DETAILS

| REVISIONS | | DATE |
|-----------|------------------|------------|
| No. | DESCRIPTION | |
| D | FOR REVIEW | 07-24-2014 |
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Job No.: N14027

Draw/Check By: BLL / EKU

ANTENNA WAVEGUIDE PORT - INSIDE VIEW

ALPHA SECTOR 1

BETA SECTOR 2

GAMMA SECTOR 3

123456

789101112

131415161718

192021222324

850PCSLTE

ANTENNA COLOR CODE SCHEME FOR LUCENT 850 / PCS / LTE MODCELL

| PORT NO. | DESCRIPTION | COLOR CODE |
|----------|----------------------|--------------------------|
| 19 | MICROWAVE #1 (MW-1) | RED / RED / RED |
| 20 | MICROWAVE #1 (MW-2) | BLUE / BLUE / BLUE |
| 21 | MICROWAVE #1 (MW-3) | GREEN / GREEN / GREEN |
| 22 | MICROWAVE #1 (MW-4) | YELLOW / YELLOW / YELLOW |
| X | MICROWAVE #1 (MW-5) | ORANGE / ORANGE / ORANGE |
| X | MICROWAVE #1 (MW-6) | PURPLE / PURPLE / PURPLE |
| X | MICROWAVE #1 (MW-7) | WHITE / WHITE / WHITE |
| X | MICROWAVE #1 (MW-8) | WHITE / RED / RED |
| X | MICROWAVE #1 (MW-9) | WHITE / BLUE / BLUE |
| X | MICROWAVE #1 (MW-10) | WHITE / GREEN / GREEN |

ANTENNA COLOR CODE FOR 850_PCS_LTE MODCELL 041312 REV 5A

SHEET

ISSUE

-SID

X

3 ANTENNA COLOR CODES (CONT.)

SCALE: NONE

PRIMARY MODCELL ANTENNA PORTS - REAR VIEW

7654321

GPS GAMMA GAMMA BETA BETA ALPHA ALPHA

"B2" "B1" "B2" "B1" "B2" "B1"

ALPHA SECTOR 1

BETA SECTOR 2

GAMMA SECTOR 3

ANTENNA WAVEGUIDE PORT - INSIDE VIEW

123456

789101112

131415161718

192021222324

850PCSLTE

ANTENNA COLOR CODE SCHEME FOR LUCENT 850 / PCS / LTE MODCELL

| PORT NO. | DESCRIPTION | COLOR CODE | COMMENTS |
|----------|----------------------|--|-------------------------|
| 1 | ALPHA SECTOR 1 (850) | | |
| 2 | ANTENNA TX1RX1 | YELLOW / RED / GREEN | 850 SYSTEM |
| | ANTENNA TX2RX2 | YELLOW / RED / RED / GREEN / GREEN | 850 SYSTEM |
| 7 | BETA SECTOR 2 (850) | | |
| | ANTENNA TX3RX3 | BLUE / RED / GREEN | 850 SYSTEM |
| 8 | ANTENNA TX4RX4 | BLUE / RED / RED / GREEN / GREEN | 850 SYSTEM |
| | GAMMA SECTOR 3 (850) | | |
| 13 | ANTENNA TX5RX5 | ORANGE / RED / GREEN | 850 SYSTEM |
| 14 | ANTENNA TX6RX6 | ORANGE / RED / RED / GREEN / GREEN | 850 SYSTEM |
| | ALPHA SECTOR 1 (PCS) | | |
| 3 | ANTENNA TX1RX1 | PURPLE / YELLOW / RED / GREEN | PCS SYSTEM |
| 4 | ANTENNA TX2RX2 | PURPLE / YELLOW / RED / RED / GREEN / GREEN | PCS SYSTEM |
| | BETA SECTOR 2 (PCS) | | |
| 5 | ANTENNA TX3RX3 | PURPLE / BLUE / RED / GREEN | PCS SYSTEM |
| 10 | ANTENNA TX4RX4 | PURPLE / BLUE / RED / RED / GREEN / GREEN | PCS SYSTEM |
| | GAMMA SECTOR 3 (PCS) | | |
| 15 | ANTENNA TX5RX5 | PURPLE / ORANGE / RED / GREEN | PCS SYSTEM |
| 16 | ANTENNA TX6RX6 | PURPLE / ORANGE / RED / RED / GREEN / GREEN | PCS SYSTEM |
| | ALPHA SECTOR 1 (LTE) | | |
| 5 | ANTENNA TX1RX1 | PURPLE / PURPLE / YELLOW / RED / GREEN | LTE SYSTEM (C - BAND) |
| 6 | ANTENNA TX2RX2 | PURPLE / PURPLE / YELLOW / RED / RED / GREEN / GREEN | LTE SYSTEM (C - BAND) |
| | BETA SECTOR 2 (LTE) | | |
| 11 | ANTENNA TX3RX3 | PURPLE / PURPLE / BLUE / RED / GREEN | LTE SYSTEM (C - BAND) |
| 12 | ANTENNA TX4RX4 | PURPLE / PURPLE / BLUE / RED / RED / GREEN / GREEN | LTE SYSTEM (C - BAND) |
| | GAMMA SECTOR 3 (LTE) | | |
| 17 | ANTENNA TX5RX5 | PURPLE / PURPLE / ORANGE / RED / GREEN | LTE SYSTEM (C - BAND) |
| 18 | ANTENNA TX6RX6 | PURPLE / PURPLE / ORANGE / RED / RED / GREEN / GREEN | LTE SYSTEM (C - BAND) |

ANTENNA COLOR CODE FOR 850_PCS_LTE MODCELL 041312 REV 5A

GPS COLOR CODE

| PORT NO. | DESCRIPTION | COLOR CODE | COMMENTS |
|----------|-----------------|------------------------|------------------|
| 23 | GPS (850 / PCS) | BLUE | 850 / PCS SYSTEM |
| 24 | GPS (LTE) | PURPLE / PURPLE / BLUE | LTE SYSTEM |

NOTE:
SHARED 850 AND PCS FREQUENCIES THROUGH A DIPLEXED MAINLINE COAX RUN IS TO BE MARKED (1) WITH A DOUBLE BAND OF THE SECTOR COLOR ON THE FIRST LINE, AND (2) WITH A TRIPLE BAND OF THE SECTOR COLOR ON THE SECOND LINE. EX: Y/Y AND Y/Y/Y; B/B AND B/B/B; O/O AND O/O/O

SHEET

ISSUE

-SID

X

1 ANTENNA COLOR CODES

SCALE: NONE

ANTENNA COLOR CODE SCHEME FOR LTE (A - BAND) AND AWS

| PORT NO. | DESCRIPTION | COLOR CODE | COMMENTS |
|----------|----------------------|---|-------------------------|
| | ALPHA SECTOR 1 (LTE) | | |
| | ANTENNA TX1RX1 | PURPLE / PURPLE / PURPLE / YELLOW / RED / GREEN | LTE SYSTEM (A - BAND) |
| | ANTENNA TX2RX2 | PURPLE / PURPLE / PURPLE / YELLOW / RED / RED / GREEN / GREEN | LTE SYSTEM (A - BAND) |
| | BETA SECTOR 2 (LTE) | | |
| | ANTENNA TX3RX3 | PURPLE / PURPLE / PURPLE / BLUE / RED / GREEN | LTE SYSTEM (A - BAND) |
| | ANTENNA TX4RX4 | PURPLE / PURPLE / PURPLE / BLUE / RED / RED / GREEN / GREEN | LTE SYSTEM (A - BAND) |
| | GAMMA SECTOR 3 (LTE) | | |
| | ANTENNA TX5RX5 | PURPLE / PURPLE / PURPLE / ORANGE / RED / GREEN | LTE SYSTEM (A - BAND) |
| | ANTENNA TX6RX6 | PURPLE / PURPLE / PURPLE / ORANGE / RED / RED / GREEN / GREEN | LTE SYSTEM (A - BAND) |
| | ALPHA SECTOR 1 (AWS) | | |
| | ANTENNA TX1RX1 | PURPLE / YELLOW / RED / GREEN / PURPLE | AWS SYSTEM |
| | ANTENNA TX2RX2 | PURPLE / YELLOW / RED / RED / GREEN / GREEN / PURPLE | AWS SYSTEM |
| | BETA SECTOR 2 (AWS) | | |
| | ANTENNA TX3RX3 | PURPLE / BLUE / RED / GREEN / PURPLE | AWS SYSTEM |
| | ANTENNA TX4RX4 | PURPLE / BLUE / RED / RED / GREEN / GREEN / PURPLE | AWS SYSTEM |
| | GAMMA SECTOR 3 (AWS) | | |
| | ANTENNA TX5RX5 | PURPLE / ORANGE / RED / GREEN / PURPLE | AWS SYSTEM |
| | ANTENNA TX6RX6 | PURPLE / ORANGE / RED / RED / GREEN / GREEN / PURPLE | AWS SYSTEM |

ANTENNA COLOR CODE FOR 850_PCS_LTE MODCELL 041312 REV 5B

NOTE:
SHARED 850 AND PCS FREQUENCIES THROUGH A DIPLEXED MAINLINE COAX RUN IS TO BE MARKED (1) WITH A DOUBLE BAND OF THE SECTOR COLOR ON THE FIRST LINE, AND (2) WITH A TRIPLE BAND OF THE SECTOR COLOR ON THE SECOND LINE. EX: Y/Y AND Y/Y/Y; B/B AND B/B/B; O/O AND O/O/O

SHEET

ISSUE

-SID

X

2 ANTENNA COLOR CODES (CONT.)

SCALE: NONE

DIAMOND ENGINEERING SERVICES

4255 PARK ROAD
BENICIA, CA 94510
TEL: 707-304-3351

verizon

wireless

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

VERIZON WIRELESS
HWY 101 & 237 PSL#277666
787 NORTH MARY AVENUE
SUNNYVALE, CA 94085

ANTENNA COLOR CODES

| No. | DESCRIPTION | REVISIONS | |
|-----|------------------|------------|--|
| | | DATE | |
| D | FOR REVIEW | 07-24-2014 | |
| E | FOR REVIEW | 08-01-2014 | |
| F | FOR REVIEW | 08-04-2014 | |
| G | FOR REVIEW | 08-08-2014 | |
| H | PER PLAN COMMENT | 02-09-2015 | |
| J | PER PLAN COMMENT | 02-17-2015 | |

Job No.: N14027
Draw/Check By: BLL / EKU

AD2