

SAMPLE PERMIT APPLICATION

Department of Public Works Encroachment Permit Application



CUPERTINO

10300 Torre Ave
Cupertino, CA 95014-3255
PH: (408) 777-3354
FX: (408) 777-3333

PERMIT # P2018-00231

Revised 9/2015

Location of Work Public Right of Way Near 10465 S De Anza Blvd Building Permit # N/A

Type of Work: check all that apply

- Sidewalk Driveway Approach Curb & Gutter Street Light Curb Ramp
- Paving Utility Trench Monitoring Well Pool Fiber Cable News Rack
- Other: Install new Verizon Wireless small cell site on a Cupertino streetlight pole

PERMITTEE:

Name: Verizon Wireless (c/o Modus Inc)

Address: 240 Stockton St, 3rd Floor
San Francisco, CA 94108

Phone: 408-219-5442

Start Date: 6/12/18 (rough forecast)

of Working days: 3

CONTRACTOR:

Name: Modus Inc

Address: 240 Stockton St 3rd Floor
San Francisco, CA 94108

24 hr. Contact: Cal Bordonaro

24 hr. Phone: 415-261-0000

Contractor's Lic. No. : C-997355

City Business Lic. No. : TBD (app filed)

ATTACH THE FOLLOWING TO APPLICATION:

- 1) Written Description of Work
- 2) Engineer's Cost Estimate
- 3) Detailed Traffic Control Plan including plan of existing pavement delineation (traffic stripes, pavement markings, and pavement markers) and signs
- 4) Project Plans and Specifications
- 5) Contractors Insurance Certificate (Insurance requirements listed on reverse)

Permittee Signature: *K-B* Date: 2/8/18

(CITY USE ONLY)		Expiration Date: <u>11/25/18</u>
Permit Fee \$ <u>1,500.00</u>	Bond \$ <u>n/a</u>	Type of Bond: <input type="checkbox"/> Cash <input type="checkbox"/> Paper <input type="checkbox"/> Certificate of Deposit
Receipt #: <u>n/a</u>		
Bond Retention Schedule <u>n/a</u>		
Approved By: <u><i>JoAnne Johnson</i></u>	Date: <u>5/25/18</u>	
Inspected By: _____	Date: _____	
SEE REVERSE FOR PERMIT CONDITIONS		

SPECIAL CONDITIONS

- Work hours limited to Monday - Friday: 7:00 a.m. 9:30 AM to 3:30 PM 6:00 p.m.
- Work hours in pavement limited to: 8:00 a.m. 9:30 AM to 3:30 PM 4:30 p.m.
- Any violation of working hours shall result in "STOP WORK" notice
- Two lanes of traffic to be maintained at all times
- Permanent paving must be installed **WITHIN 5 WORKING DAYS** after completion
- Pavement delineation or signs damaged during construction shall be replaced in kind
- Pavment section shall match existing
- Slurry Seal is required to match existing pavement
- All Trenching shall be backfilled to a minimum of 95% relative compaction
- Trench plates in the travel way shall be traffic rated, properly secured and shall be recessed upon request
- If trench is 3' or less from Lip of Gutter, contractor shall repave to Lip of Gutter.
- Jobsite shall be properly posted 48 hours in advance. Barricades must bear the name and phone number (24 hour number) of the contractor or utility performing work. All signs attached to barricades must show the days and dates when work will be performed. Parking may not be restricted on Saturday or Sunday.
- BMP Sheet Attached
- Potholes and bore pits shall be filled to grade with cutback at end of each work day:
- Other _____

General Conditions

- 1) The Public Works Inspector of the City of Cupertino, (408) 777-3104, shall be notified at least 48 hours prior to beginning work in the public Right-of-Way or requesting inspection of work. After the work is completed, notify the Public Works Inspector to schedule a final inspection.
- 2) A copy of this permit must be kept on the job site.
- 3) The applicant shall notify County Communications, (408) 299-2501, at least 24 hours prior to any work in the traveled way section of a street.
- 4) Permittee shall employ construction best management practices which will prevent pollutants such as mud, silt, chemical residue, and washings from concrete saw-cutting from entering storm drains. Brochures are available at the Public Works counter.
- 5) The applicant agrees that if the encroachment for which this permit is issued which shall at any time in the future interfere with the use, repair, improvement, widening, or change of grade of any street, roadway, highway, sidewalk, curb, drain, or Right-of-Way, applicant or his successor or assigns, shall within 14 days after receipt of written notice from the Director of Public Works to do so, at its own expense either remove such encroachment subject to approval from the Director, or relocate to a site which may be designated by the Director. Any encroachment removed by the City will not be replaced.
- 6) It is further agreed that, commencing with the performance of the Work by the Permittee or his contractor and continuing until the completion of the maintenance of the Work, the Permittee shall indemnify, hold harmless and defend the City from and against any or all loss, cost, expense, damage or liability, or claim thereof, occasioned by or in any way whatsoever arising out of the performance or nonperformance of the Work or the negligence or willful misconduct of the Permittee or the Permittee's agents, employees and independent contractors, except to the extent any of the foregoing is caused by the sole negligence or willfull misconduct of the City or the City's agents, employees and independent contractors.
- 7) Should the Permittee provide services which are subject to the City's Franchise ordinance, Permittee agrees to pay any applicable City franchise fee.
- 8) This encroachment permit shall be terminable at the sole discretion of the City upon 30 days written notice to the Permittee.
- 9) The applicant's contractor shall carry at all times commercial general liability insurance with a combined single limit of \$1.0 million per occurrence; \$2.0 million aggregate; and provide a Certificate of Insurance and Endorsement naming the City as Additional Insured. Insurers must be licensed to do business within the State of California and have a current Best's Guide Rating of A, Class VII or better or that is otherwise acceptable to the City.
- 10) All work within the public Right of Way must be completed by a contractor who holds a current Class A or appropriate Class C license and a current City of Cupertino business license.
- 11) Permittee and Contractor shall comply with Chapter 11.32 of the Cupertino Municipal Code "Truck Traffic Routes". **No person shall operate or drive any truck that exceeds a gross weight of three tons between the hours of 7:00 a.m and 9:30 am or 2:00 p.m and 4:00 p.m. on the following roadway segments:**
 - a) any roadway which runs contiguous to and is within 500 feet of any public school grounds
 - b) McClellan Road, between Stelling Road and Bubb Road.

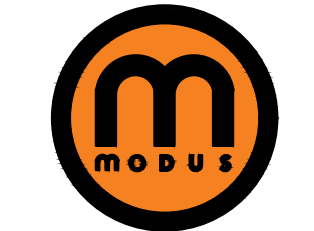


SITE NAME: SF_CUPER001
SITE ID: CPSC001
LOCATION CODE: 417709
ASSET ID: LTPL1004
BADGE NUMBER: 24431
SERVICE ID: 4993063026
SITE ADDRESS: PUBLIC ROW ADJACENT TO 10465 S. DE ANZA BOULEVARD CUPERTINO, CA 95014
COUNTY: SANTA CLARA COUNTY
SITE TYPE: STEEL LIGHT POLE

JAMES VACCARO ARCHITECT, INC.

411 DONDEE WAY, UNIT C
 PACIFICA | CA 94044
 415.608.3670 PHONE | 415.963.4471 FAX
 INFO@JVARCHITECT.COM
 WWW.JVARCHITECT.COM

CLIENT



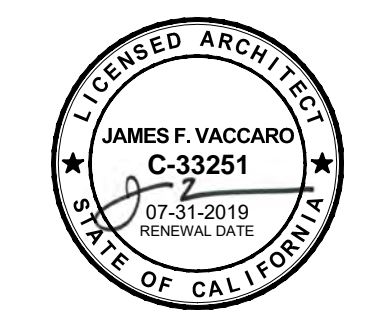
MODUS, INC.
 240 STOCKTON STREET, 3RD FLOOR
 SAN FRANCISCO, CA 94108



VERIZON WIRELESS
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
 CPSC001
 PUBLIC ROW ADJACENT TO
 10465 S. DE ANZA BOULEVARD
 CUPERTINO, CA 95014
 APN: PUBLIC ROW ADJACENT
 TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

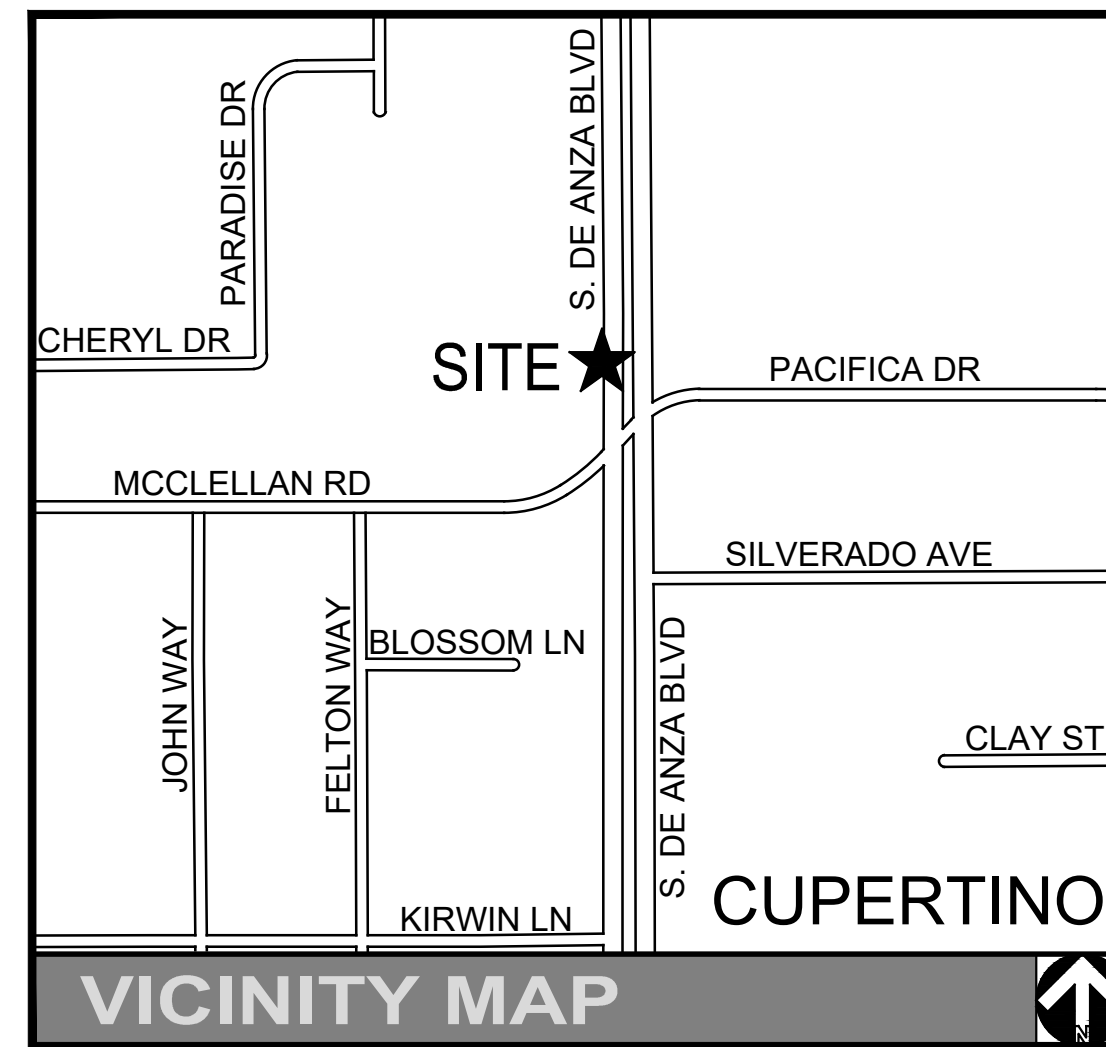
THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE SOLELY WITH RESPECT TO THIS PROJECT. THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN CONSENT. THESE PLANS ARE FORMATTED TO BE FULL-SIZE AT ARCH D 24"x36". COPYRIGHT 2018 JAMES VACCARO ARCHITECT, INC..

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



DIRECTIONS FROM VERIZON WIRELESS OFFICE WALNUT CREEK, CA:

- HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD
- TURN LEFT ONTO OAK GROVE RD
- USE THE LEFT 2 LANES TO TURN LEFT ONTO TREAT BLVD
- TURN RIGHT ONTO N MAIN ST
- TURN RIGHT ONTO THE INTERSTATE 680 S RAMP TO OAKLAND/SAN JOSE
- MERGE ONTO I-680 S
- CONTINUE ONTO I-280 N
- USE THE 2ND FROM THE RIGHT LANE TO TAKE THE DE ANZA BOULEVARD EXIT
- USE THE LEFT 2 LANES TO TURN LEFT ONTO N DE ANZA BLVD

DRIVING DIRECTIONS

TITLE	SIGNATURE	DATE
VERIZON PM		
VERIZON CM		
VERIZON RF		
MODUS PM		
MODUS CM		
UTILITIES		
LANDLORD/ PROPERTY OWNER		

SIGNATURE BLOCK

PROJECT DESCRIPTION

THE PROJECT INVOLVES THE INSTALLATION OF AN UNMANNED WIRELESS TELECOMMUNICATION FACILITY CONSISTING OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON A CITY OF CUPERTINO REPLACEMENT STEEL LIGHT POLE IN THE PUBLIC RIGHT OF WAY. EXISTING POLE AND FOUNDATION TO BE REMOVED AND REPLACED WITH NEW STEEL POLE AND CONCRETE FOUNDATION. EXISTING POLE FOUNDATION TO BE DEMOLISHED TO A MINIMUM DEPTH BELOW EXISTING GRADE AND ABANDONED IN PLACE.

GENERAL SCOPE OF WORK

- ANTENNA AND ASSOCIATED EQUIPMENT**
 INSTALL A NEW CYLINDRICAL ANTENNA AND EQUIPMENT ON A STEEL LIGHT POLE. INSTALLATION CONSISTS OF (1) NEW CYLINDRICAL ANTENNA CONCEALED WITHIN NEW CONCEALMENT SHROUD AT TOP OF LIGHT POLE, (2) NEW RRUS EQUIPMENT CABINETS AND (1) NEW LOAD CENTER/ DISCONNECT MOUNTED TO LIGHT POLE AND ASSOCIATED POWER, FIBER AND COAXIAL CABLES ROUTED WITHIN LIGHT POLE.
- PAINT**
 ALL NEW EQUIPMENT AND MOUNTING COMPONENTS SHALL BE PAINTED TO MATCH LIGHT POLE, INCLUDING ANTENNA SHROUD, MOUNTING BRACKETS, CABLE SHROUD/ SWEEP, RRUS UNITS, RRUS MOUNTING BRACKETS AND LOAD CENTER.
- CABLING**
 CABLING TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS.
- SIGNAGE**
 FCC MANDATED RF NOTICE/ WARNING AND SHUT-DOWN SIGNAGE TO BE MOUNTED TO LIGHT POLE PER FCC REQUIREMENTS, THE CITY OF CUPERTINO REQUIREMENTS, THE CALIFORNIA PUBLIC UTILITIES COMMISSION GENERAL ORDER 95 SECTION 94.5 AND PACIFIC GAS AND ELECTRIC REQUIREMENTS.

PROJECT DESCRIPTION

ARCHITECT

JAMES VACCARO ARCHITECT, INC.
 411 DONDEE WAY, UNIT C
 PACIFICA, CA 94044
 CONTACT: JAMES VACCARO, AIA
 CONTACT NUMBER: (415) 608-3670
 FAX NUMBER: (415) 963-4471
 EMAIL: JVACCARO@JVARCHITECT.COM

SURVEYOR

HAYES LAND SURVEYING AND MAPPING
 2830 MADIGAN COURT
 CONCORD, CA 94518
 CONTACT: RICK HAYES
 CONTACT NUMBER: (925) 798-3591
 EMAIL: RKSEYAH@COMCAST.NET

STRUCTURAL ENGINEER

JEFFREY M. VAN DYKE, S.E.
 1470 FELTA ROAD
 HEALDSBURG, CA 95448
 CONTACT NUMBER: (707) 696-3721
 EMAIL: JJEFFREY@STRUCTURALENGINEERINGCONSULTING.COM

AGENT PROJECT MANAGER

MODUS, INC.
 240 STOCKTON STREET, 3RD FLOOR
 SAN FRANCISCO, CA 94108
 CONTACT: KEVIN BOWYER
 PHONE: (408) 219-5442
 EMAIL: KBOWYER@MODUS-CORP.COM

PROJECT TEAM

APPLICANT

VERIZON WIRELESS
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598
 CONTACT: JENNIFER HAAS
 PHONE: (650) 759-1377
 EMAIL: JENNIFER.HAAS@VERIZONWIRELESS.COM

AGENT

MODUS, INC.
 240 STOCKTON STREET, 3RD FLOOR
 SAN FRANCISCO, CA 94108
 CONTACT: KEVIN BOWYER
 PHONE: (408) 219-5442
 EMAIL: KBOWYER@MODUS-CORP.COM

PROPERTY OWNER

CITY OF CUPERTINO
 CUPERTINO CITY HALL
 10300 TORRE AVENUE
 CUPERTINO, CA 95014-3202
 PHONE: (408) 777-3354
 EMAIL: ENGINEERING@CUPERTINO.ORG

A.P.N.: ROW ADJACENT TO 359-17-019

OCCUPANCY TYPE: N/A-LIGHT POLE IN ROW

CONSTRUCTION TYPE: TYPE V-B

ZONING JURISDICTION: CITY OF CUPERTINO

ZONING DESIGNATION: HE4

LATITUDE (NAD 83): 37° 18' 58.99" N

LONGITUDE (NAD 83): 122° 01' 57.00" W

GROUND ELEVATION: ±248.6 AMSL

PROJECT INFORMATION

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES AND AUTHORITIES HAVING JURISDICTION.

- 2016 CALIFORNIA ADMINISTRATIVE CODE, TITLE 24 PART 1
- 2016 CALIFORNIA BUILDING CODE, TITLE 24 PART 2
- 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3
- 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4
- 2016 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5
- 2016 CALIFORNIA ENERGY CODE, TITLE 24 PART 6
- 2016 CALIFORNIA FIRE CODE, TITLE 24 PART 9
- ANSI/TIA-222-G
- 2018 NFPA 101, LIFE SAFETY CODE
- 2017 NFPA 70, NATIONAL ELECTRICAL CODE
- 2016 NFPA 72, NATIONAL FIRE ALARM CODE
- 2016 NFPA 13, SPRINKLER CODE
- 2013 AASHTO LTS-6
- STATE OF CALIFORNIA GENERAL ORDER NO. 128
- CITY/ COUNTY ORDINANCES AND CODES

ACCESSIBILITY FACILITY IS UN-MANNED AND NOT FOR HUMAN REQUIREMENTS: HABITATION. DISABLED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 2, VOL. 1, CHAPTER 11B, DIVISION 2, SECTION 11B-203.5.

CODE COMPLIANCE

SHEET NO.	SHEET TITLE	REV.
T-1	TITLE SHEET	3
T-2	SYMBOLS, ABBREVIATIONS	3
T-3	GENERAL NOTES	3
C-1	TOPOGRAPHIC SURVEY, EXISTING CONDITIONS	1
A-1	SITE PLAN, ENLARGED ANTENNA LAYOUT, ENLARGED EQUIPMENT LAYOUT	3
A-2.0	ELEVATIONS	3
A-2.1	ELEVATIONS	3
A-3	DETAILS	3
S-1	STRUCTURAL NOTES, DETAILS	3
S-2	DETAILS	3
EP-1	SINGLE LINE DIAGRAM, EQUIPMENT GROUNDING DIAGRAM	3
EP-2	UTILITY PLAN, CONDUIT SCHEDULE, CIRCUIT DIAGRAM	3
EP-3	DETAILS	3
SP-1	SPECIFICATIONS	3
SP-2	SPECIFICATIONS	3
SP-3	SPECIFICATIONS	3

SHEET INDEX

1 General Notes

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND START OF CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS ARE FOUND, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED, IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FOR CLARIFICATIONS. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION BEFORE COMMENCEMENT OR RESUMPTION OF WORK.
3. ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. NOTIFY THE ARCHITECT/ENGINEER OF ANY ABBREVIATIONS IN QUESTION.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE CODE AND REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ARCHITECT/ENGINEER.
9. LEGAL EXITS SHALL NOT BE BLOCKED AT ANYTIME.
10. TEMPORARY PEDESTRIAN PROTECTION SHALL BE PROVIDED AS REQUIRED BY LOCAL CODES.
11. THE ARCHITECT/ENGINEER SHALL BE CONSULTED IN ANY/ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY STRUCTURE IS NECESSARY. PRIOR TO PROCEEDING WITH WORK.
12. CONTRACTOR SHALL VERIFY ACTUAL ROUTING OF CONDUIT, POWER AND FIBER CABLES. GROUND CABLES AS SHOWN. CONTRACTOR SHALL ADD NEW CONDUIT AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER.
13. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
14. CLEAN UP AND DISPOSAL-REMOVE DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE OWNER'S PROPERTY TO A LAWFUL/ LEGAL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO PERTAINING FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDERS UPON COMPLETION OF WORK ALL CONSTRUCTION AREAS SHALL BE LEFT CLEAN AND FREE FROM DEBRIS. CLEAN
15. THE CONTRACTOR SHALL PROTECT ALL FINISH WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/ OR REPAIR ALL DAMAGED SURFACES CAUSED BY THE CONTRACTOR OR SUBCONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER.
16. PRIOR TO INSPECTION OF THE EXISTING FACILITY, THE CONTRACTOR MUST RECEIVE PERMISSION FOR SITE ACCESS FROM THE OWNER OR THE DESIGNATED REPRESENTATIVE.
17. WHEN IT IS NECESSARY TO INTERRUPT ANY EXISTING UTILITY SERVICE TO MAKE CORRECTIONS AND/ OR CONNECTION, A MINIMUM OF 48 HOURS ADVANCE NOTICE SHALL BE GIVEN TO THE OWNER. INTERRUPTIONS IN UTILITY SERVICES SHALL BE OF THE SHORTEST POSSIBLE DURATION AND SHALL BE APPROVED IN ADVANCE BY THE OWNER.
18. ALL CONTRACTORS PERFORMING WORK ON THE SITE SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING BUT NOT LIMITED TO THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MAY ENDANGER THE PUBLIC OR WORKERS.
19. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BELOW GRADE AND RELATED SERVICE CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANIES.
20. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT, AND/ OR RELOCATION OF EXISTING UTILITIES ABOVE OR BELOW GRADE WITH THE RESPECTIVE UTILITY COMPANIES.
21. THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY ACCORDING TO LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL OBTAIN PERMITS FROM APPROPRIATE AGENCIES.
22. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
23. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
24. THE EXISTING SITE IS IN FULL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK MUST BE COORDINATED WITH THE OWNER. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE WINDOW TO MINIMIZE DISTURBANCE.
25. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY SUBSTITUTIONS, INCLUDING CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT AND DETAILS OF CONSTRUCTIONS FROM THOSE SHOWN. THE SUBSTITUTIONS PROCEDURES PER SPECIFICATIONS SECTION 01 25 00 SHALL BE FOLLOWED. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PERFORMANCE AND ASSOCIATED COSTS FOR ANY SUBSTITUTION NOT APPROVED IN WRITING BY THE ARCHITECT/ENGINEER PER SPECIFICATIONS SECTION 01 25 00.
26. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A/10-BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE WORK AREA DURING CONSTRUCTION.
27. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.
28. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL EQUIPMENT AND MATERIALS WHICH MUST INTERFACE AND COORDINATE WITH OTHERS, WHETHER DETAILED OR NOT.

GENERAL NOTES

3 Concrete Notes

CONCRETE NOTES

31. THE CONTRACTOR SHALL OBTAIN OSHA PERMITS FOR ANY VERTICAL EXCAVATION OVER 5'-0" DEEP INTO WHICH PERSONS MUST DESCEND.
32. ALL DISSIMILAR METALLIC MATERIALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT GALVANIC ACTION, WHETHER DETAILED OR NOT.
33. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.

2 Site Work Notes

SITE WORK NOTES

1. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES AND CONDUCT UNDERGROUND UTILITY LOCATING AND MAPPING PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONSTRUCTION MANAGER ONLY UPON APPROVAL OF SPECIFIC UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. CONTRACTOR SHALL DETERMINE THE ACCURATE LOCATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO ANY EXCAVATION.
7. CONTRACTOR SHALL CEASE EXCAVATING IF UNIDENTIFIED UTILITIES ARE ENCOUNTERED.
8. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER OF EXCAVATION DAMAGE AND TAKE STEPS TO MITIGATE DAMAGE AND/ OR ASSIST WITH REPAIR.
9. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BACKFILL AND OTHER PHYSICAL SUPPORT TO PROTECT UNDERGROUND UTILITIES.
10. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS AND AUTHORITY HAVE JURISDICTION SPECIFICATIONS FOR SITE SIGNAGE.
12. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

4 Reinforcing Steel Notes

REINFORCING STEEL NOTES

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 U.O.N.
2. BARS SHALL BE CLEAN OF MUD, OIL OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
3. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
4. REINFORCING STEEL SHALL BE SPLICED AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

5 Steel Notes

STEEL NOTES

1. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST ADDITION.
2. BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
3. PIPE STEEL SHALL CONFORM TO ASTM A-53, GRADE B.
4. PLATES SHALL CONFORM TO ASTM A-36.
5. ALL STEEL PERMANENTLY EXPOSED TO WEATHER, (INCLUDING NUTS, BOLTS, WASHERS) SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

6 Welding Notes

WELDING NOTES

1. THE QUALITY OF MATERIALS AND THE FABRICATION OF ALL WELDED CONNECTIONS SHALL BE IN CONFORMANCE WITH THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1 LATEST EDITION.
2. SPECIAL INSPECTION OF WELDING PER SECTION 1704 IS REQUIRED. A QUALIFIED AND CERTIFIED INSPECTOR SHALL BE PRESENT DURING SHOP AND FIELD WELDING OPERATIONS UNLESS OTHERWISE NOTED AND SHALL INSPECT ALL THE WORK AS REQUIRED BY AWS D1.1, SECTION 6.
3. SPECIAL INSPECTION NEED NOT BE CONTINUOUS FOR THE FOLLOWING ITEMS, PROVIDED THE MATERIAL, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS MAY BE MADE OF WORK IN PROGRESS AND A VISUAL INSPECTION OF ALL WELDS IS STILL REQUIRED.
4. SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16 INCH.
4. INSPECTORS SHALL POSSESS AND BE FAMILIAR WITH THE APPROVED WELDING PROCEDURE SPECIFICATIONS (WPS).
5. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING PRE-QUALIFIED WELDING PROCEDURES.
6. THE INSPECTOR SHALL CONFIRM THE QUALIFICATION OF WELDERS, THE USE OF AWS QUALIFIED PROCEDURES, THE MANUFACTURER'S RECOMMENDED USE OF AUTOMATIC EQUIPMENT AND THE PROPER USE OF PREHEAT, IF REQUIRED.

7 Painting Notes

PAINTING NOTES

1. EXTRA MATERIALS: DELIVER TO OWNER 1 QUART OF EACH COLOR AND TYPE OF FINISH COAT PAINT USED ON PROJECT, IN CONTAINERS, PROPERLY LABELED AND SEALED.
2. MANUFACTURER SHALL BE TNE MEC COMPANY INCORPORATED, UNLESS NOTED OTHERWISE.
3. MATERIAL COMPATIBILITY: PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.
4. FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
5. REMOVE HARDWARE, AND SIMILAR ITEMS THAT ARE NOT TO BE PAINTED. MASK ITEMS THAT CANNOT BE REMOVED. REINSTALL ITEMS IN EACH AREA AFTER PAINTING IS COMPLETE.
6. CLEAN AND PREPARE SURFACES IN AN AREA BEFORE BEGINNING PAINTING IN THAT AREA. SCHEDULE PAINTING SO CLEANING OPERATIONS WILL NOT DAMAGE NEWLY PAINTED SURFACES.
7. APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.
9. IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.
10. SEE SPECIFICATIONS SECTION 09 00 00 FOR PAINTING AND COATING SPECIFICATIONS.

8 Light Pole Notes

LIGHTING NOTES

1. LUMINAIRES, JUNCTION BOXES, 1-1/2" RIGID METAL CONDUIT, 1-1/2" PVC CONDUIT, AND POLES SHALL COMPLY WITH SECTION 86 OF THE CALTRANS STANDARD SPECIFICATIONS AND CITY OF CUPERTINO STANDARD DETAILS.
2. LUMINAIRES MAY BE CUT OFF, TYPE M-II OR M-III I.E.S. LIGHT DISTRIBUTION, UNLESS OTHERWISE NOTED. AT CUL-DE-SACS USE TYPE M-III OR BETTER, UNLESS OTHERWISE NOTED.
3. THE SERVICE SUPPLYING ELECTROLIER CIRCUIT SHALL BE FUSED AND GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AT THE FIRST JUNCTION BOX. AN ADDITIONAL FUSE IS REQUIRED AT EACH ELECTROLIER ON ANY UNGROUNDED CONDUCTOR. CONDUCTORS SHALL BE #8 THW UNLESS OTHERWISE NOTED AND ALL SERVICE SHALL BE 120 VOLT. PHOTO ELECTRIC UNIT CONTROL IS TO BE LOCATED AT THE LUMINAIRE UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL OBTAIN A SERVICE POINT CONFIRMATION AND A CLEARANCE FROM THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLING ANY FOUNDATIONS, POLES, CIRCUITS AND CONDUCTORS. UNDERGROUND SERVICE ALERT SHALL BE USED TO VERIFY LOCATION OF OTHER UNDERGROUND UTILITIES.
5. PRIOR TO PLACING ANY WORK OTHER THAN CURB AND GUTTER, THE CONTRACTOR SHALL SUPPLY THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT WITH A PACIFIC GAS AND ELECTRIC COMPANY ELECTRICAL POWER DESIGN WITH ELECTRICAL SERVICE POINTS AND POLE NUMBERS.
6. A CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT CONNECTION ORDER IS REQUIRED TO ENERGIZE ANY ELECTROLIER OR EQUIPMENT (PROVIDED BY THE CITY OF CUPERTINO AFTER COMPLETION AND INSPECTION FOR SUBMITTAL TO PACIFIC GAS AND ELECTRIC).
7. CONTACT PACIFIC GAS AND ELECTRIC FOR ADDITIONAL REQUIREMENTS AND CONTACT THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT FOR INSPECTIONS OF FOUNDATIONS FORTY EIGHT HOURS PRIOR TO FOUNDATION POURING AND ELECTRICAL INSPECTIONS.
8. THE CONTRACTOR SHALL SUPPLY TO THE CITY OF CUPERTINO FOR APPROVAL, MANUFACTURER'S SUBMITTALS FOR ALL NEW LUMINAIRES.
9. ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
10. ALL OVERLOAD PROTECTION (FUSES) SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
11. WHENEVER AN INSTALLATION IS NEAR ANY OVERHEAD WIRES/ CONDUCTORS, A CLEARANCE MUST BE OBTAINED FROM PACIFIC GAS AND ELECTRIC PRIOR TO INSTALLATION.

CLIENT



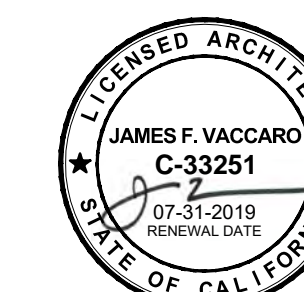
MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

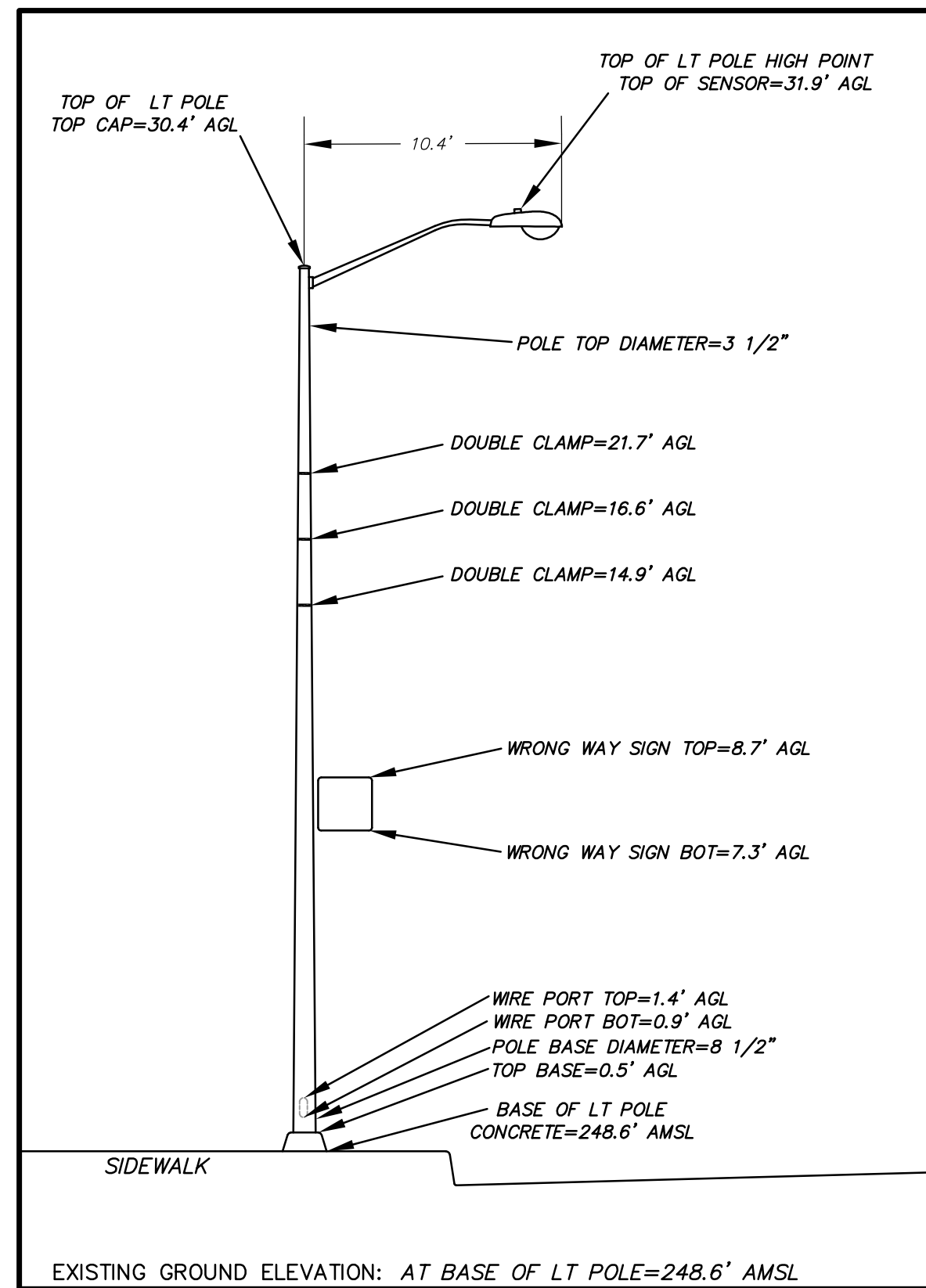
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SHEET TITLE

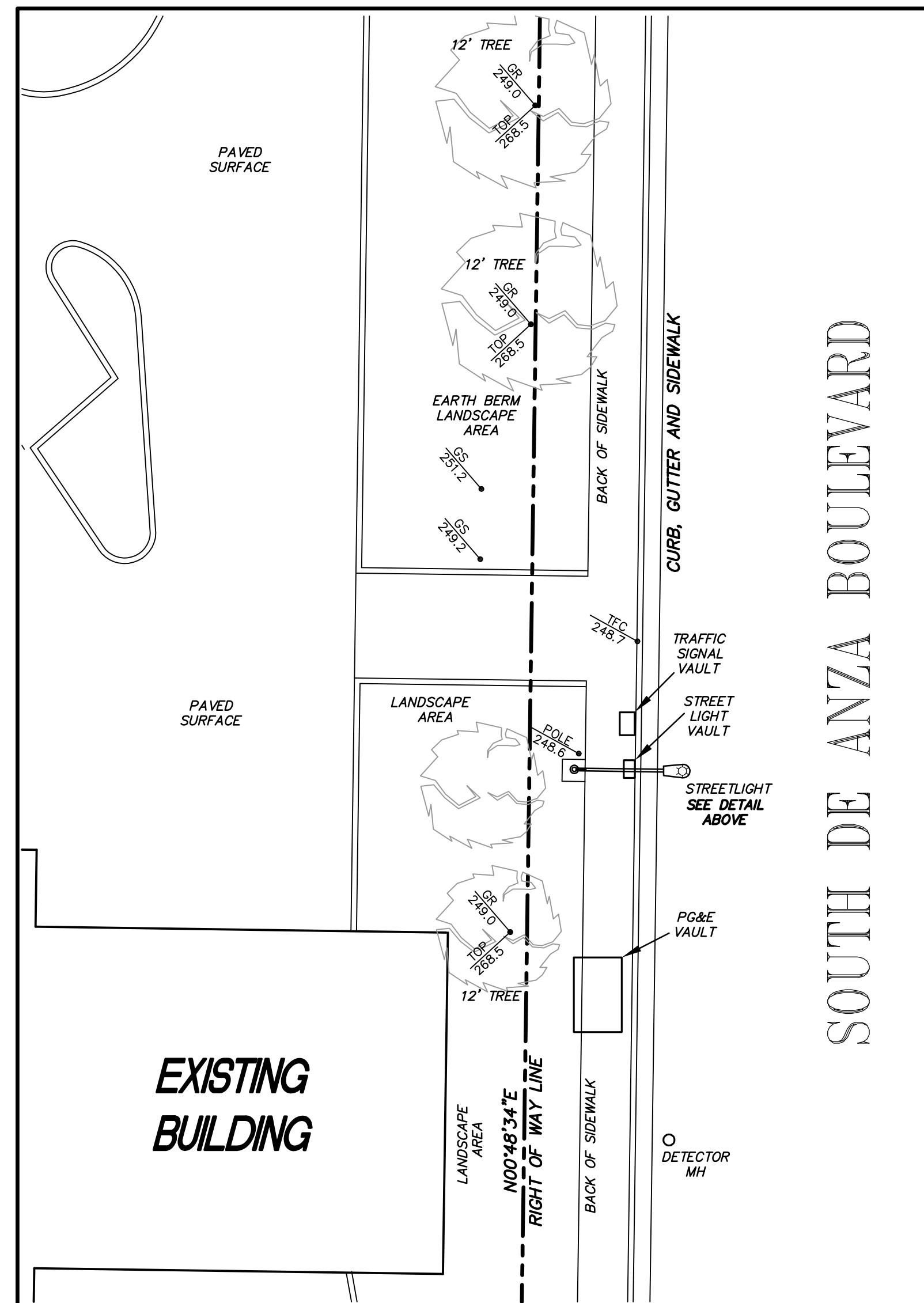
GENERAL NOTES

SHEET NUMBER

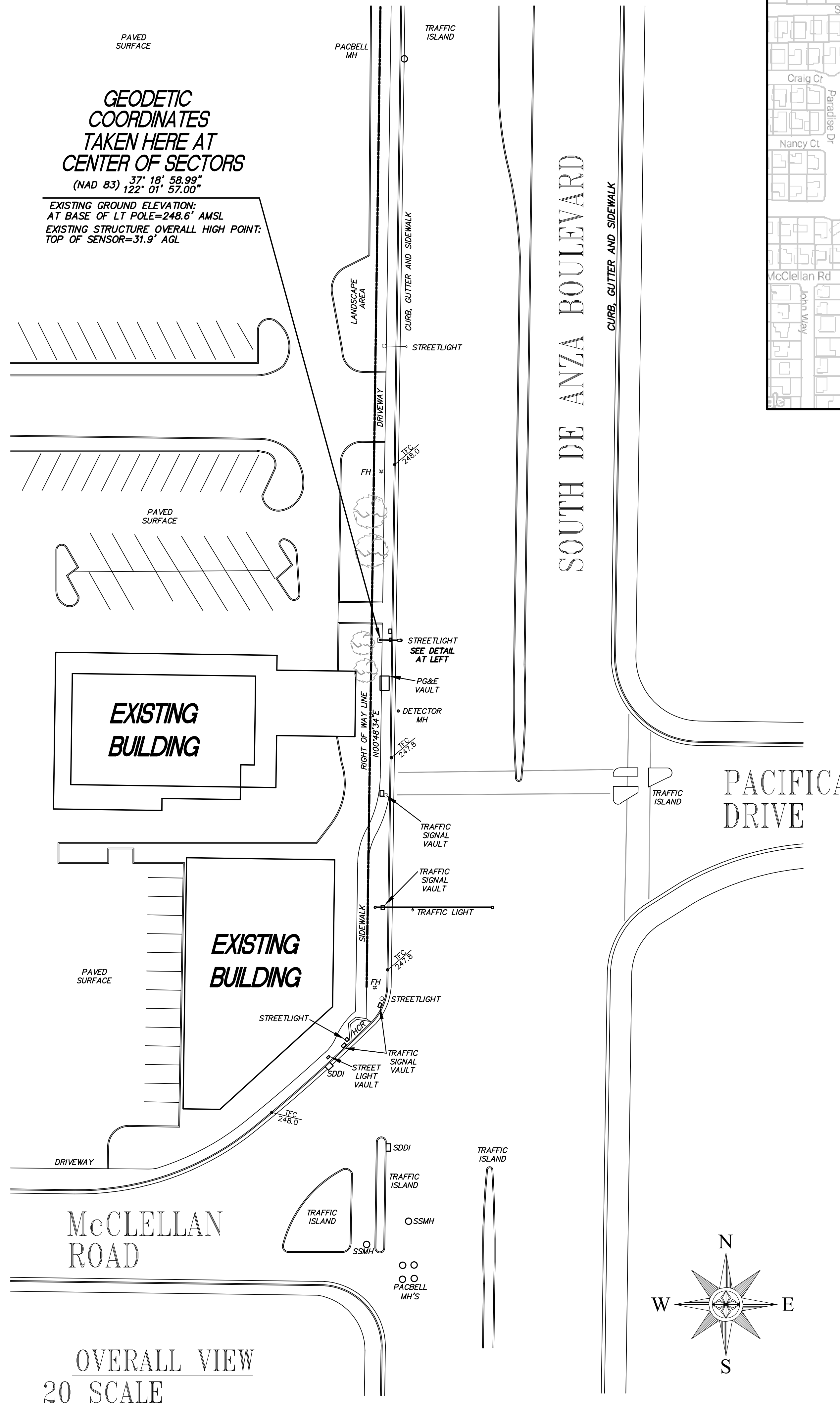
T-3



POLE DETAIL
5 SCALE 1" = 5'



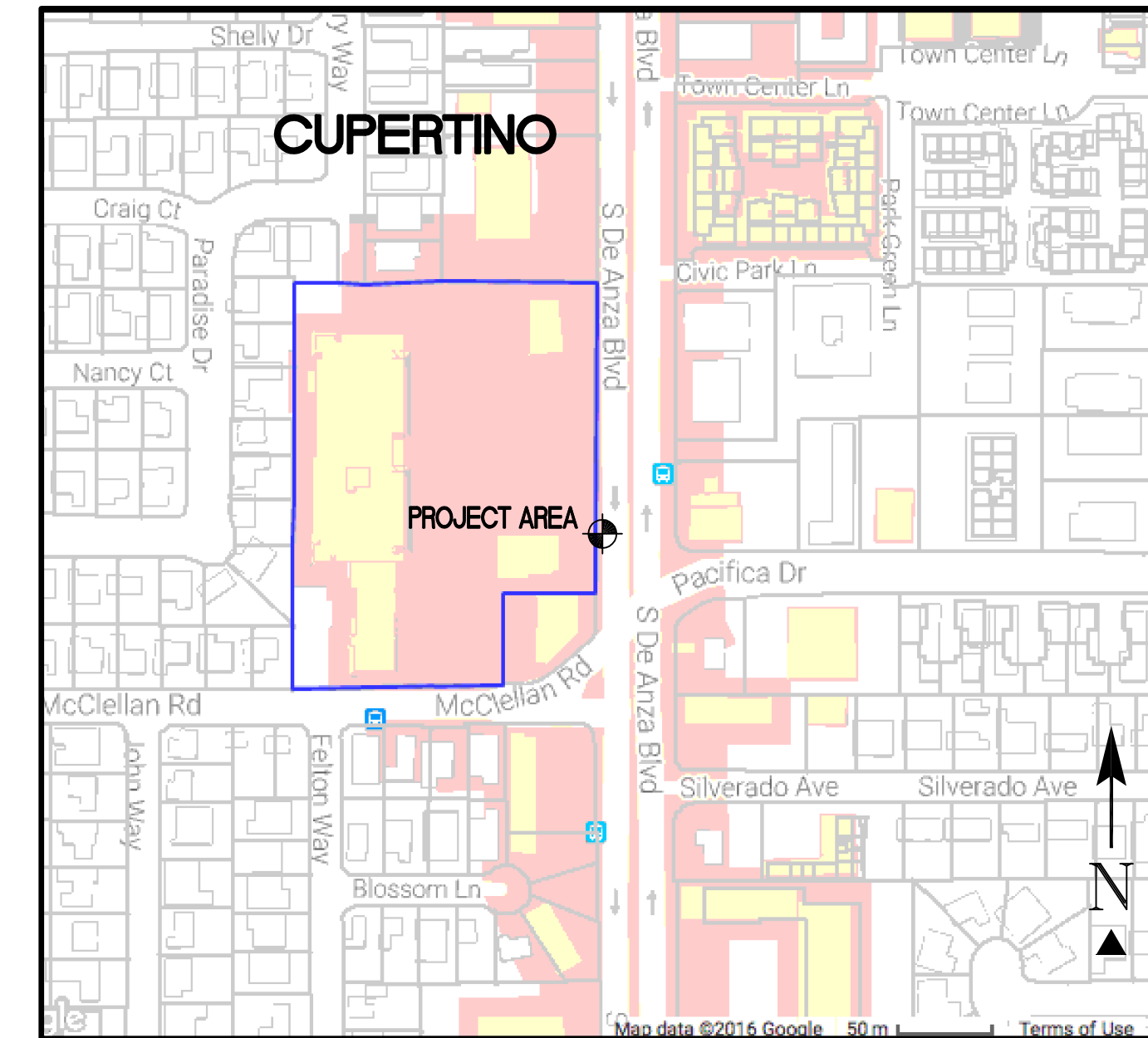
PROJECT AREA
10 SCALE



OVERALL VIEW
20 SCALE

GEODETIC COORDINATES TAKEN HERE AT CENTER OF SECTORS
(NAD 83) 37° 18' 58.99"
122° 01' 57.00"

EXISTING GROUND ELEVATION:
AT BASE OF LT POLE=248.6' AMSL
EXISTING STRUCTURE OVERALL HIGH POINT:
TOP OF SENSOR=31.9' AGL



VICINITY MAP
N.T.S.

PROPERTY INFORMATION

SF_CUPER001

SITE: CPSC001
10465 SOUTH DE ANZA BOULEVARD
CUPERTINO, CA 95014

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM STATE PLANE COORDINATE ZONE 3, DETERMINED BY GPS OBSERVATIONS.

BENCHMARK

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING GEOID 99 SEPARATIONS, CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.0' (NAVD88)

UTILITY NOTES

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SURVEYOR'S NOTES

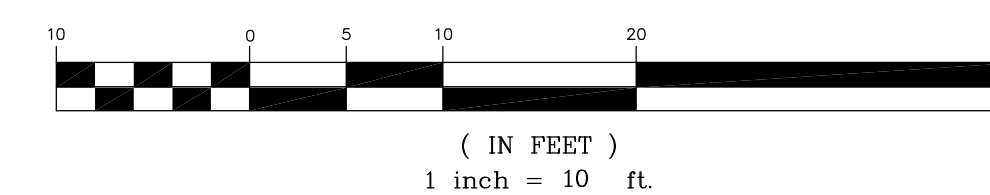
ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

LEGEND

- | | | | |
|-----|------------------------|-----|------------------------|
| DI | DRAIN INLET | W | WATER CONTROL VALVE |
| TFC | TOP FACE OF CURB | FH | FIRE HYDRANT |
| R/W | RIGHT OF WAY | GC | GUY CONDUCTOR |
| EP | EDGE OF PAVED DRIVEWAY | FN | FOUND AS NOTED |
| DW | DRIVEWAY | PP | POWER POLE |
| TOP | TOP OF SLOPE | LP | LIGHT POLE |
| SW | SIDEWALK | ET | ELECTRICAL TRANSFORMER |
| TP | TOP OF PARAPET | AU | AIR CONDITIONING UNIT |
| OH | OVERHANG | TP | TELEPHONE PEDESTAL |
| FH | FIRE HYDRANT | TV | TELEPHONE VAULT |
| WV | WATER VALVE | TM | TELEPHONE MANHOLE |
| MH | MANHOLE | GV | GAS VALVE |
| GC | GEODETIC COORDINATES | GM | GAS METER |
| SE | SPOT ELEVATION | PL | PROPERTY LINE |
| DA | DISH ANTENNA | CLF | CHAIN LINK FENCE |

SURVEY DATE
8/15/16

GRAPHIC SCALE

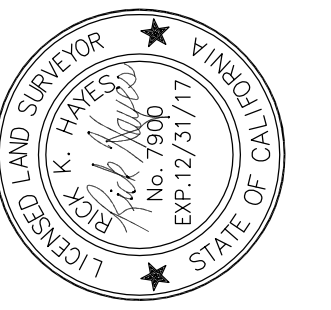


ISSUE STATUS

REV.	DATE	DESCRIPTION
1	8/24/2016	SITE PLAN



HAYES
Land Surveying
And Mapping
2850 MADRIGAN COURT
CONCORD, CA 94518



2785 MITCHELL DRIVE
WALNUT CREEK, CA. 94598
OFFICE: 925-279-6000
(925) 279-6333

TOPOGRAPHIC SURVEY
EXISTING CONDITIONS

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10465 SOUTH DE ANZA
BOULEVARD
CUPERTINO, CA 95014

C-1
SHEET 1 of 1

CLIENT



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240 STOCKTON STREET, 3RD FLOOR
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VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
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PUBLIC ROW ADJACENT TO
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CUPERTINO, CA 95014
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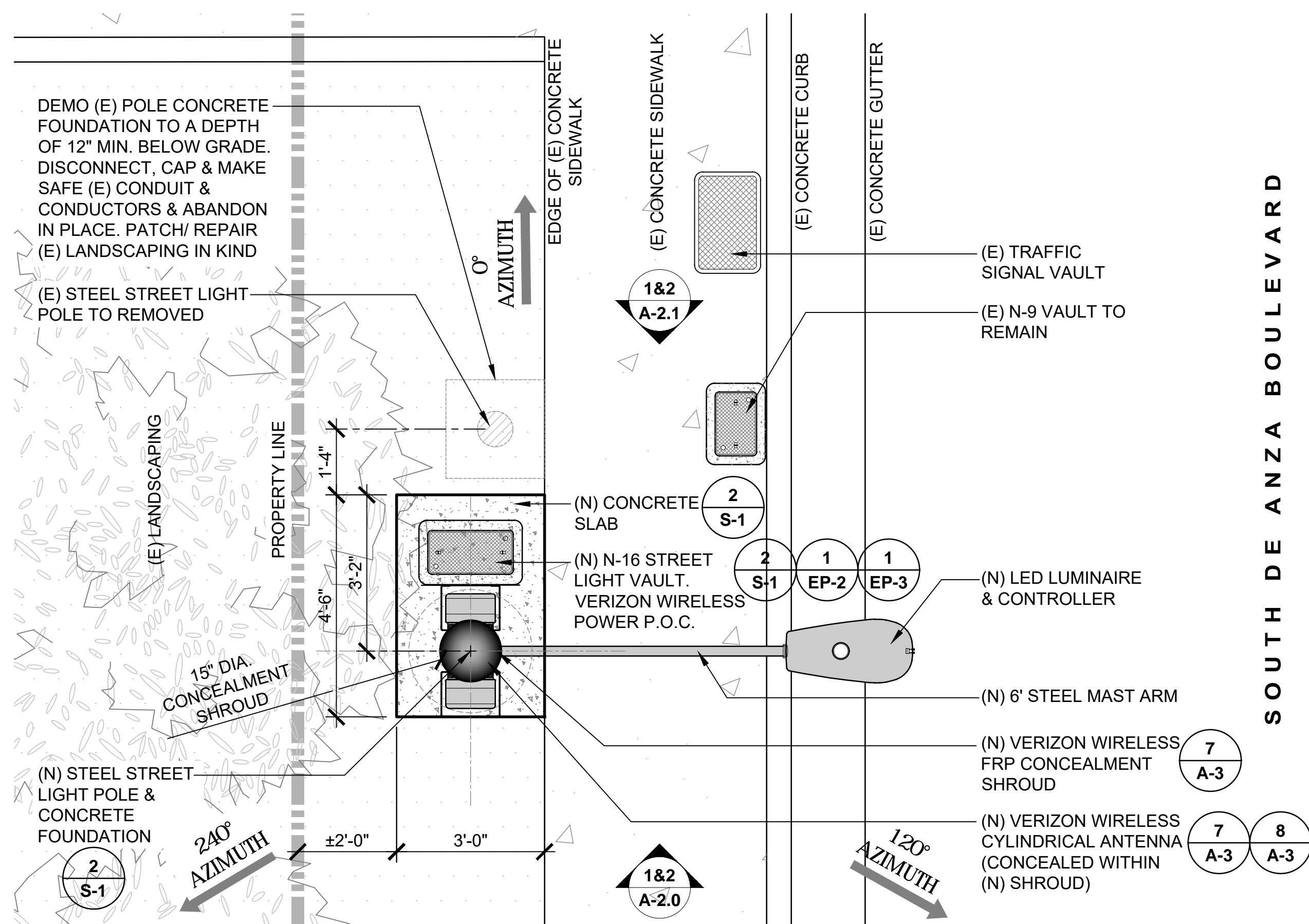
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SHEET TITLE

**SITE PLAN, ENLARGED
ANTENNA LAYOUT,
ENLARGED EQUIPMENT
LAYOUT**

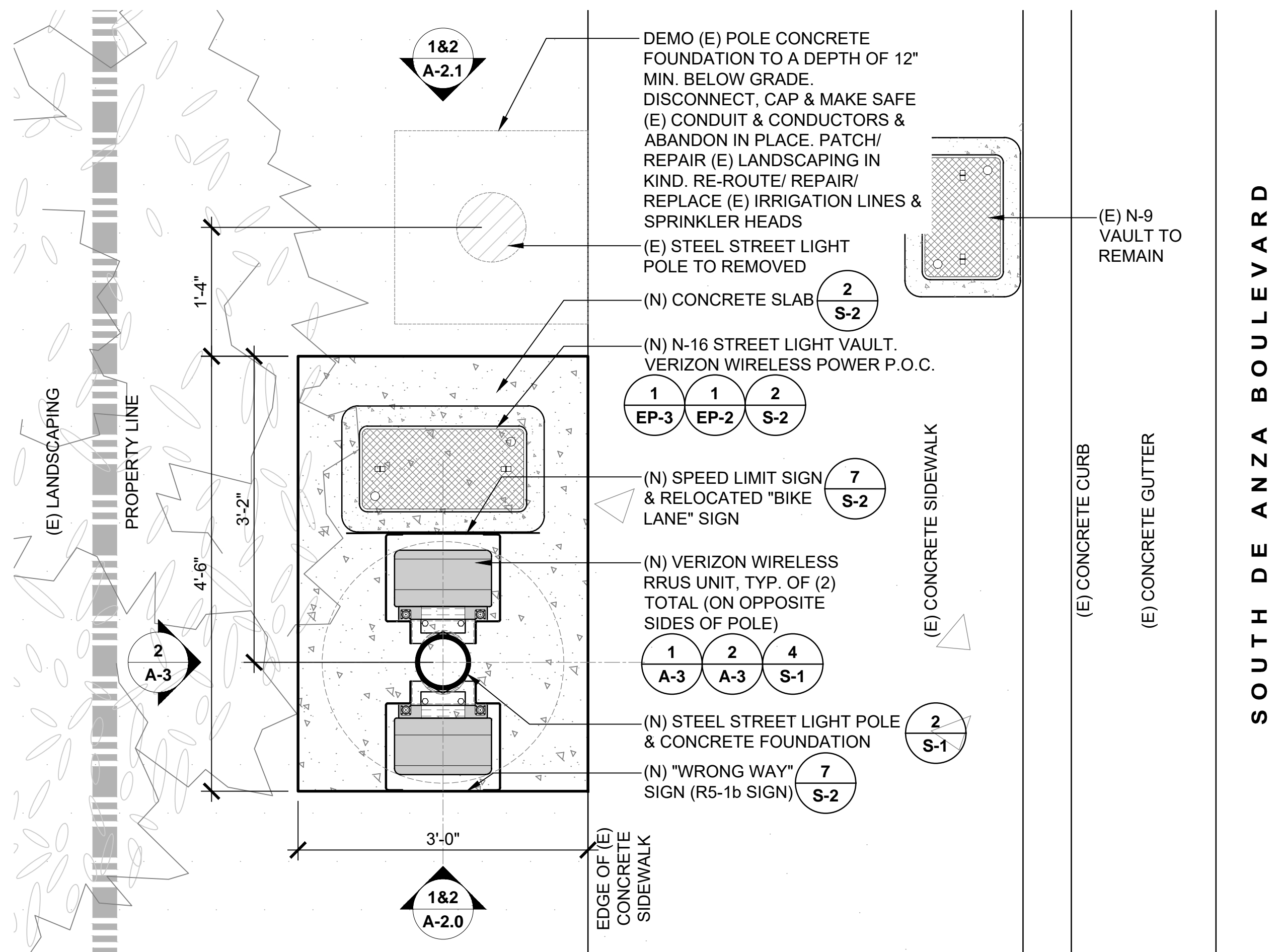
SHEET NUMBER

A-1



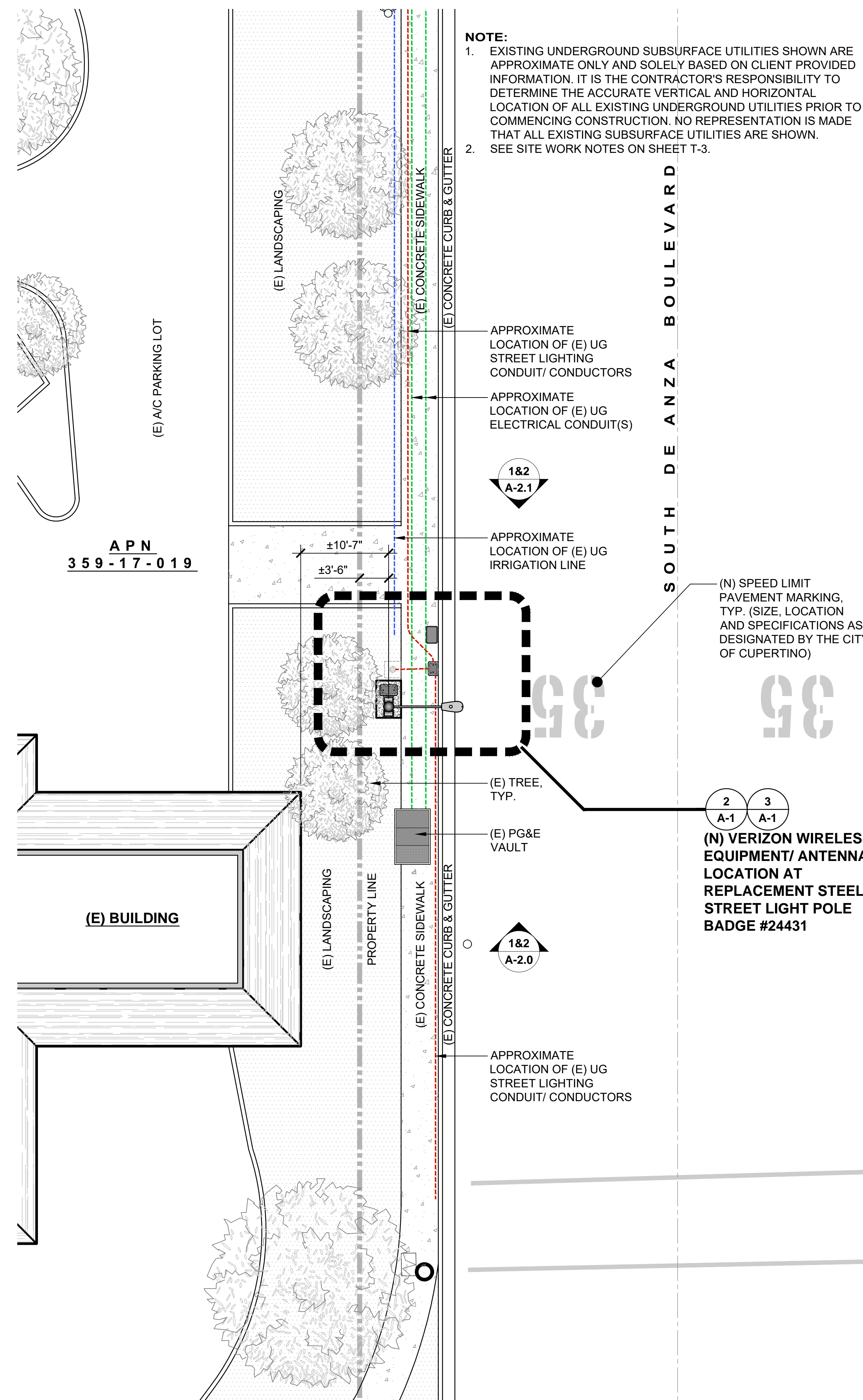
ENLARGED ANTENNA LAYOUT

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



ENLARGED EQUIPMENT LAYOUT

SCALE: 1"=1'-0" 3



SITE PLAN

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

NOTE:
1. EXISTING UNDERGROUND SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE ONLY AND SOLELY BASED ON CLIENT PROVIDED INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACCURATE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING SUBSURFACE UTILITIES ARE SHOWN.
2. SEE SITE WORK NOTES ON SHEET T-3.

CLIENT



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240 STOCKTON STREET, 3RD FLOOR
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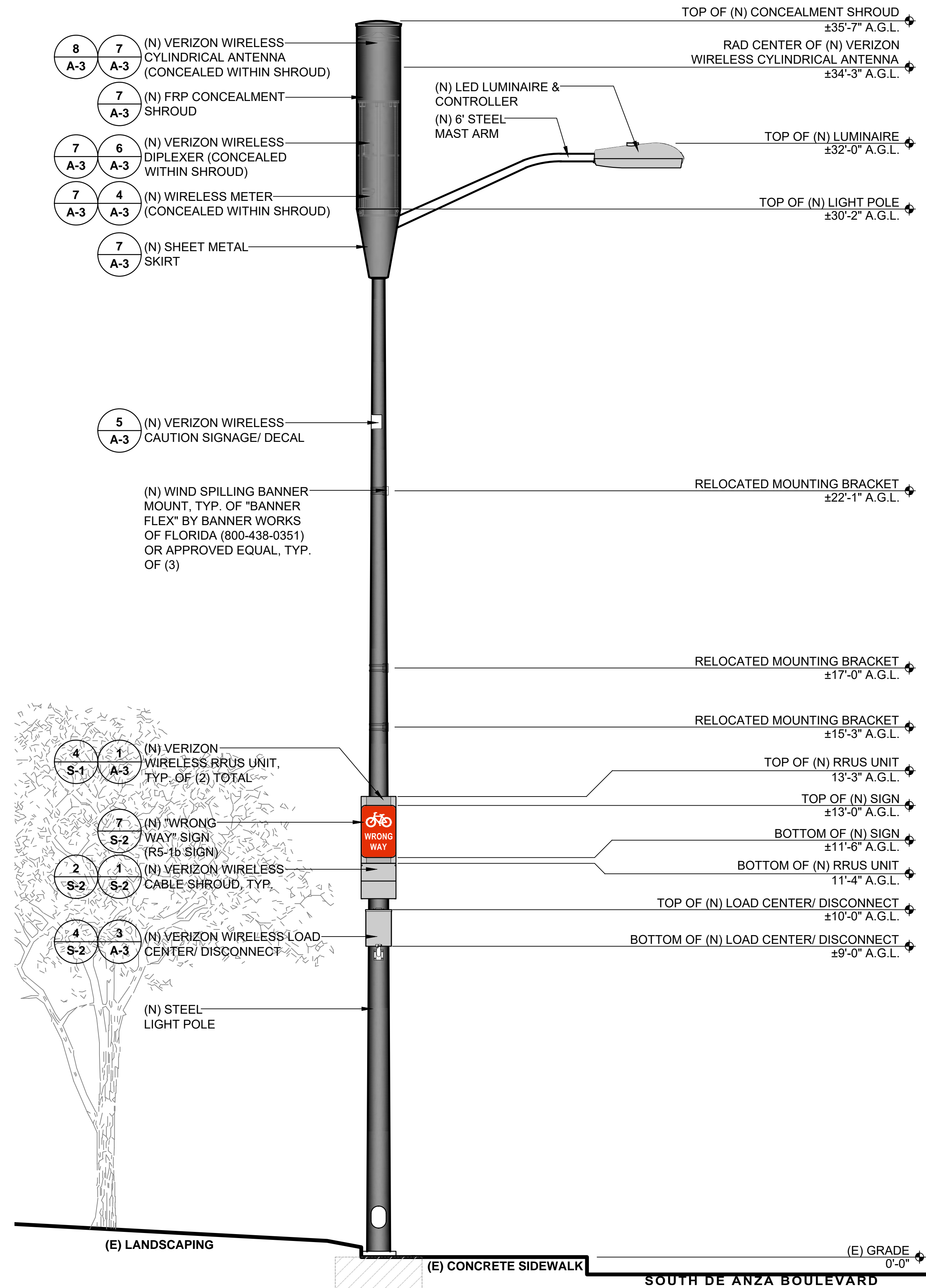
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SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-2.0

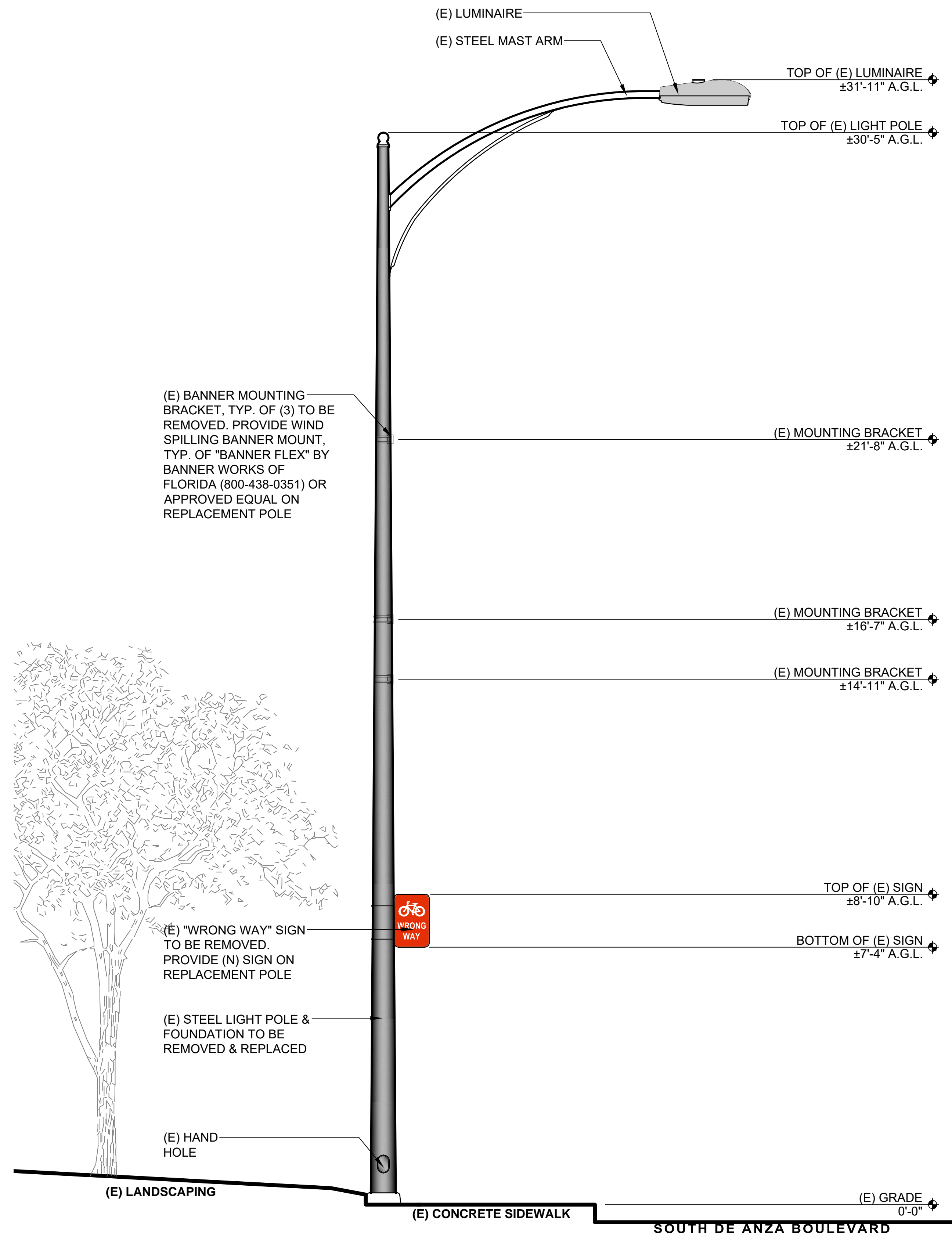


NOTES:

1. REPLACEMENT STEEL LIGHT POLE SHALL BE 7 GA. MODIFIED TYPE 15 POLE BY VALMONT INDUSTRIES, INC. WITH SINGLE ARM ASSEMBLY (ARM LENGTH TO MATCH EXISTING).
2. EXISTING POLE MOUNTED SIGNAGE SHALL BE RELOCATED TO NEW POLE.
3. REPLACEMENT MAST ARM AND LUMINAIRE SHALL BE ORIENTED PERPENDICULAR TO CENTERLINE OF EXISTING ROADWAY.
4. DEMO EXISTING EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING POLE FOUNDATION AND PLACEMENT OF NEW FOUNDATION. REPLACE EXISTING SIDEWALK IN KIND.

PROPOSED SOUTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 2



EXISTING SOUTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 1

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VERIZON WIRELESS
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REV	DATE	ISSUE
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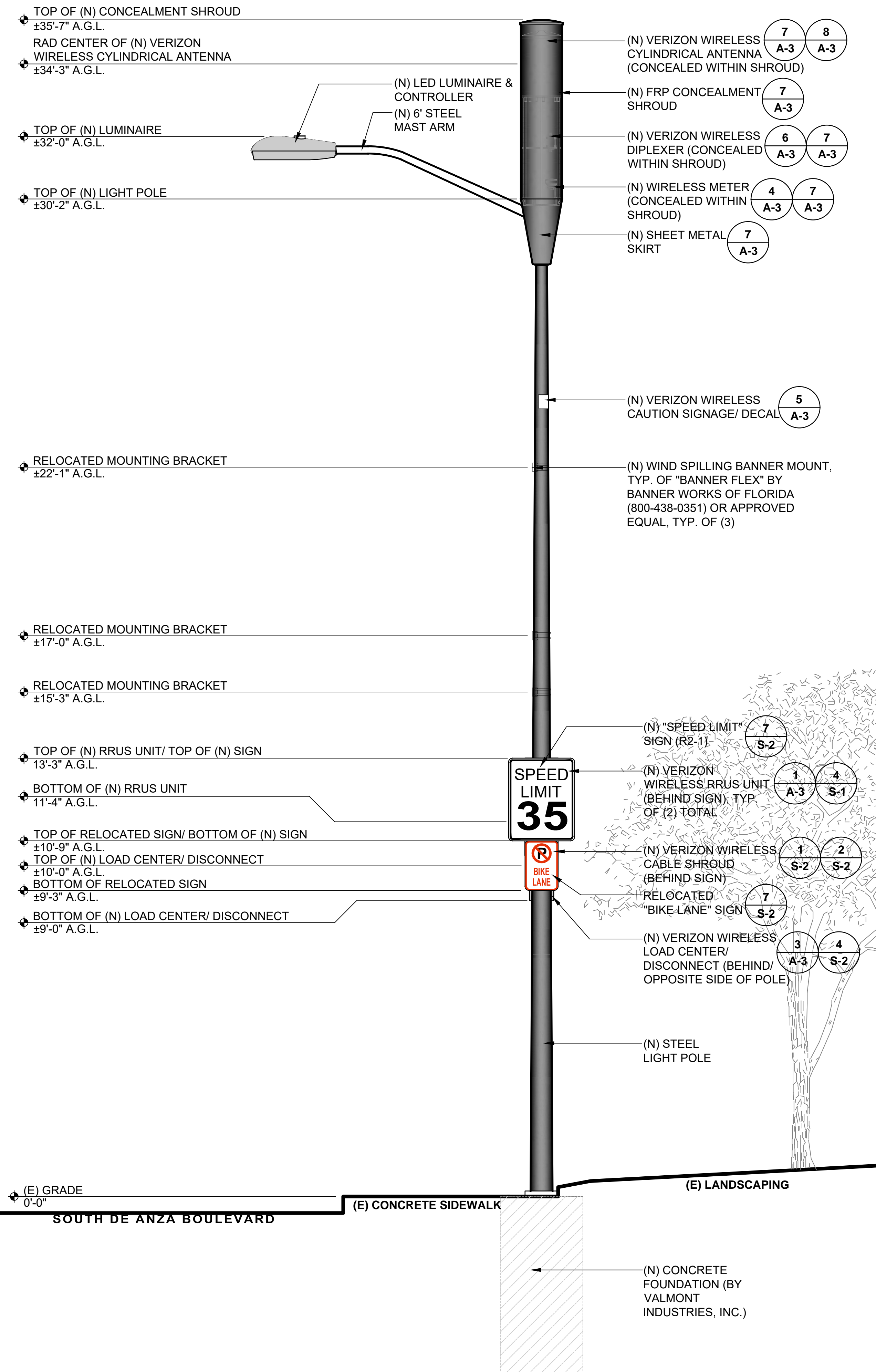
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SHEET TITLE

ELEVATIONS

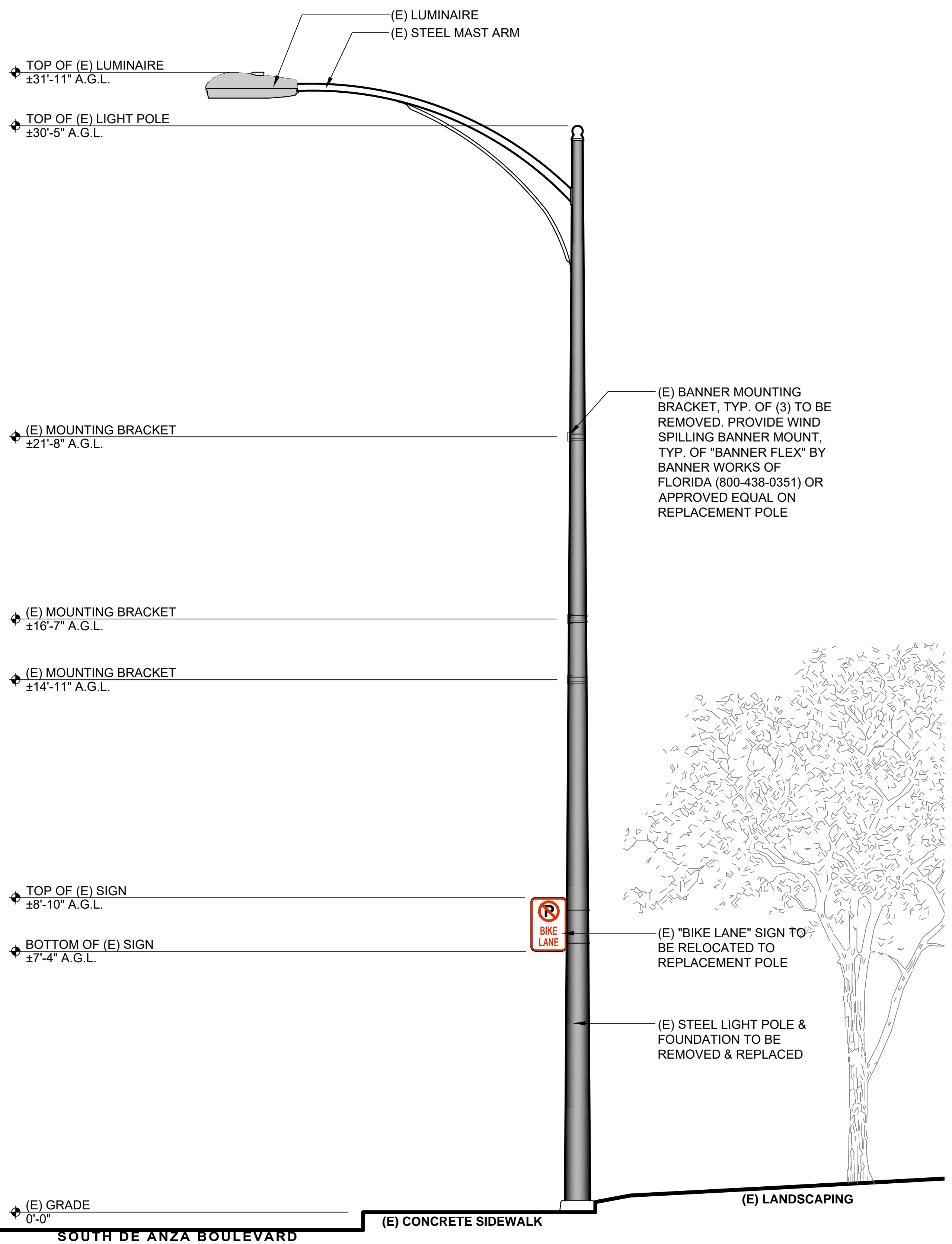
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A-2.1



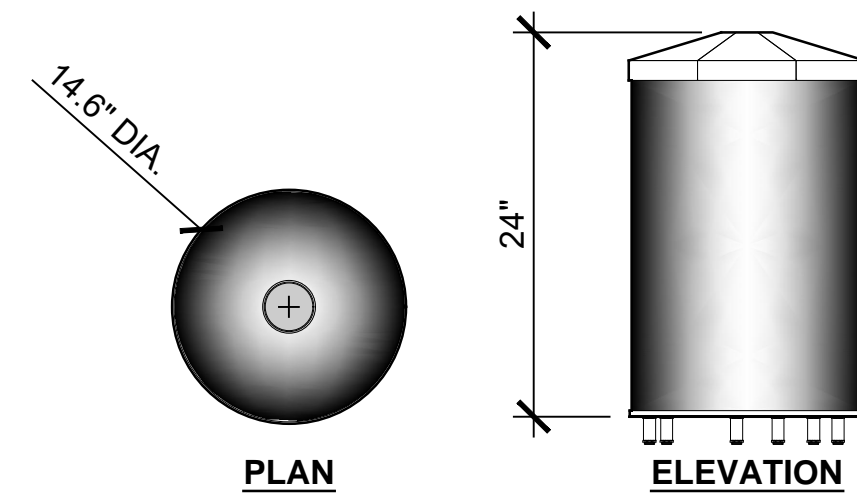
PROPOSED NORTH ELEVATION

SCALE: 1/2"=1'-0"
1' 2' 4' 2



EXISTING NORTH ELEVATION

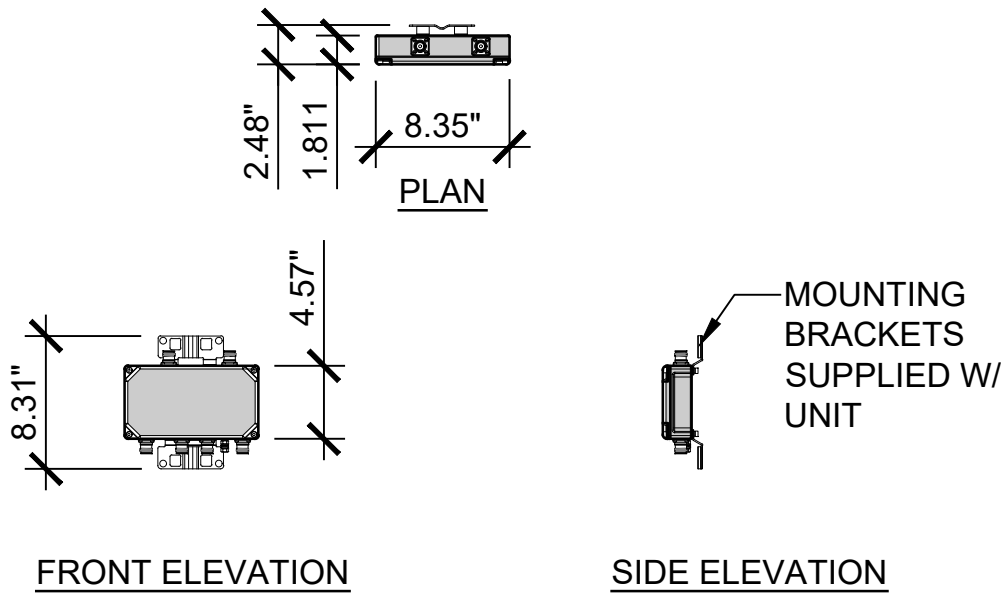
SCALE: 1/2"=1'-0"
1' 2' 4' 1



CYLINDER ANTENNA DIMENSIONS	
DIAMETER	±14.6"
HEIGHT	±24"
CYLINDER ANTENNA WEIGHT	
ANTENNA WEIGHT	±27 LBS.

CYLINDER ANTENNA

SCALE: N.T.S 8

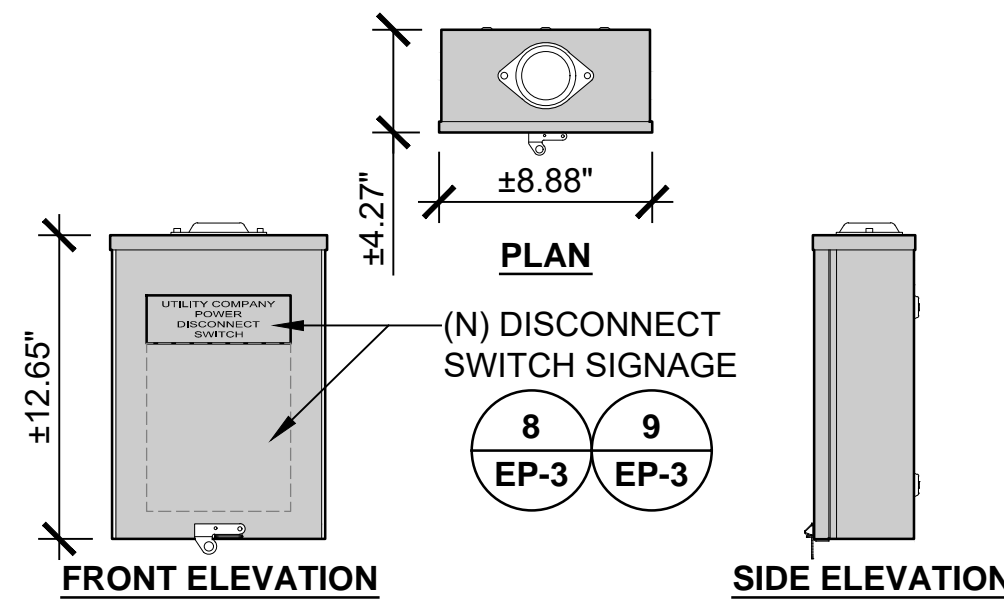


CBC1923T-4310 DIPLEXER DIMENSIONS	
HEIGHT	±4.57"
WIDTH	±8.35"
DEPTH	±2.48"
CBC1923T-4310 DIPLEXER WEIGHT	
DIPLEXER	±5 LBS.

- NOTES:**
1. COMMSCOPE PART# E11F13P06
 2. ALL CONNECTORS SHALL BE WEATHERPROOFED.
 3. INSTALL IN STRICT ACCORDANCE WITH COMMSCOPE INSTALLATION MANUAL.

DIPLEXER

SCALE: N.T.S 6

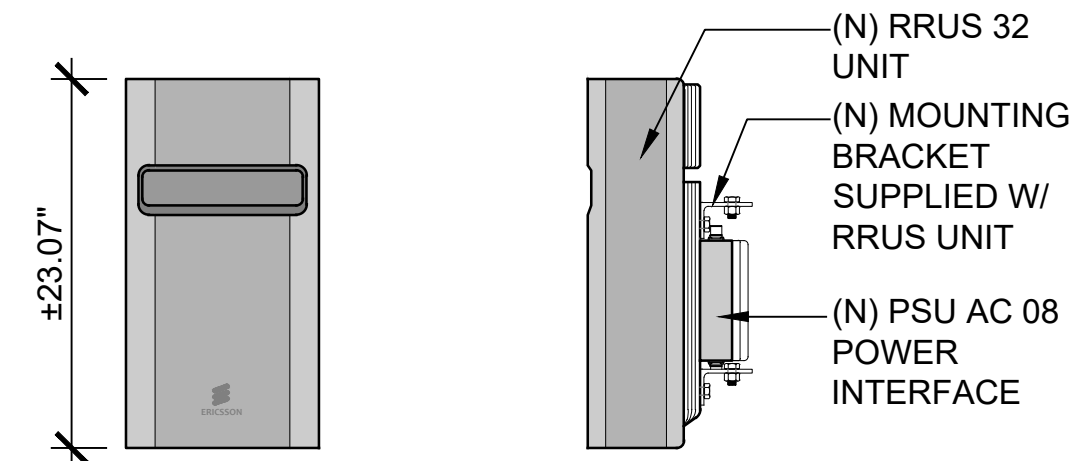
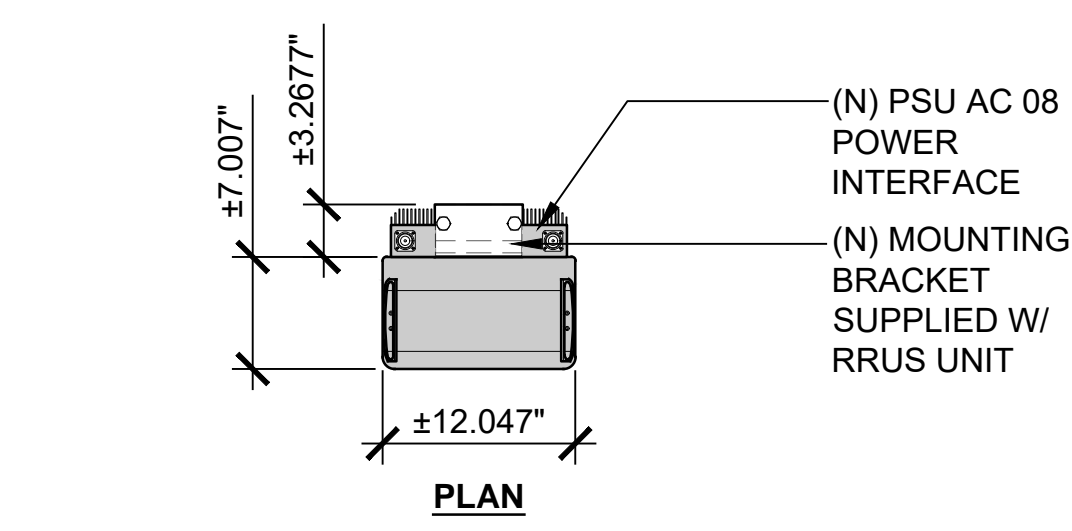


SQUARE D Q0612L100RB LOAD CENTER DIMENSIONS	
HEIGHT	±12.65"
WIDTH	±8.88"
DEPTH	±4.27"
SQUARE D Q0612L100RB LOAD CENTER WEIGHT	
WEIGHT	±10 LBS.

- NOTES:**
1. SQUARE D PART# Q0612L100RB.
 2. NEMA 3R OUTDOOR RATED, 100 A, 120/240 VOLT, 1 PHASE LOAD CENTER.
 3. INSTALL IN STRICT ACCORDANCE WITH SQUARE D/ SCHNEIDER ELECTRIC INSTALLATION MANUAL.

DIST. PANEL/ DISCONNECT

SCALE: N.T.S 3

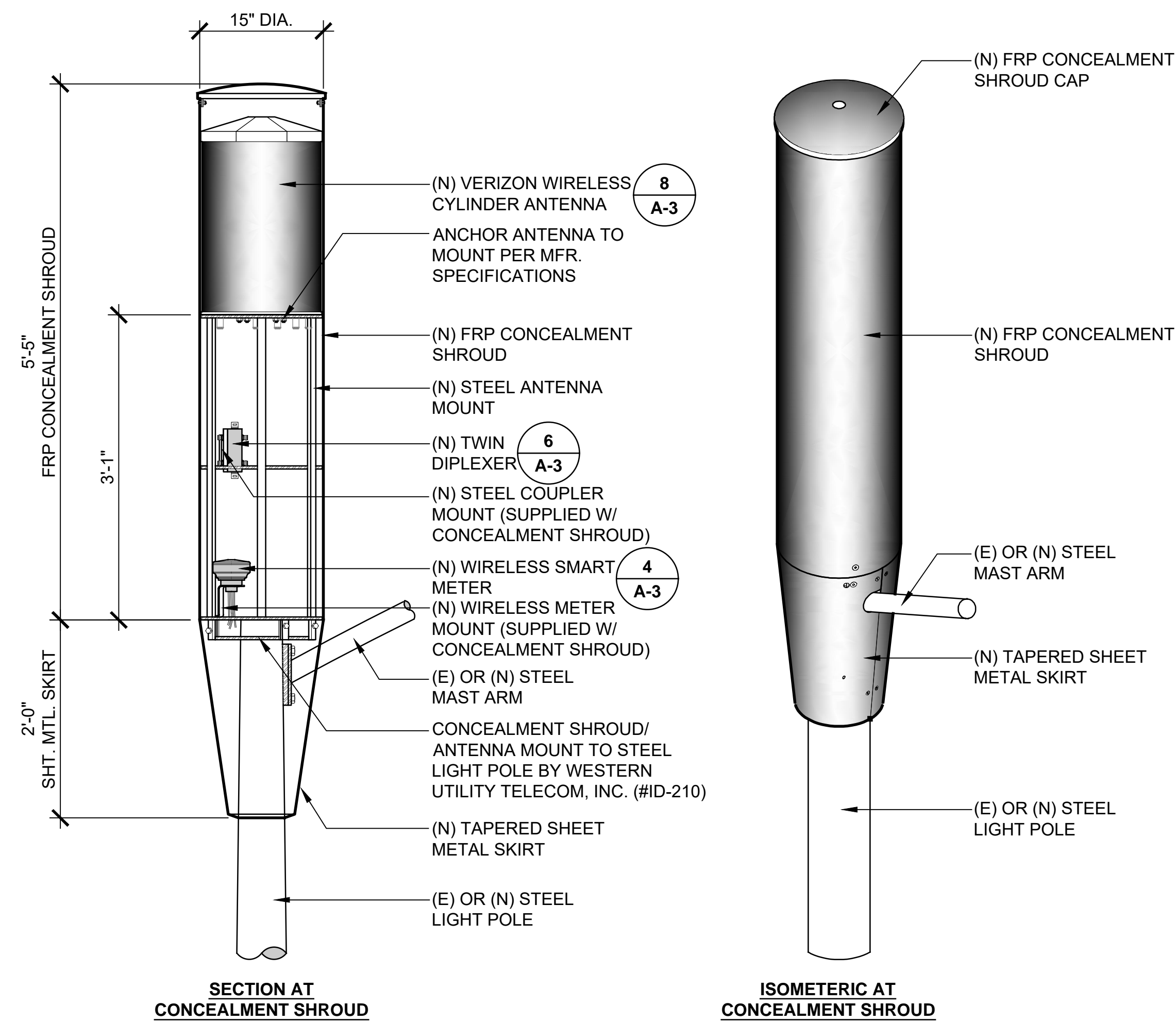


RRUS 32 UNIT DIMENSIONS	
HEIGHT W/ HANDLES	±27.165"
HEIGHT W/O HANDLES	±23.07"
WIDTH	±12.047"
DEPTH	±7.007"
RRUS 32 UNIT WEIGHT	
UNIT W/ PSU AC 08	±65 LBS.
RRUS 32 UNIT CLEARANCE REQUIREMENTS	
ABOVE/ BELOW	16" MIN.

- NOTES:**
1. ERICSSON PART# RRUS 32
 2. ALL CONNECTORS SHALL BE WEATHERPROOFED.
 3. INSTALL IN STRICT ACCORDANCE WITH ERICSSON INSTALLATION MANUAL.
 4. PAINT SOLAR SHIELD & ALL MOUNTING COMPONENTS TO MATCH POLE.
 5. RRUS HANDLES TO BE REMOVED PRIOR TO INSTALLATION.

RRUS 32 UNIT

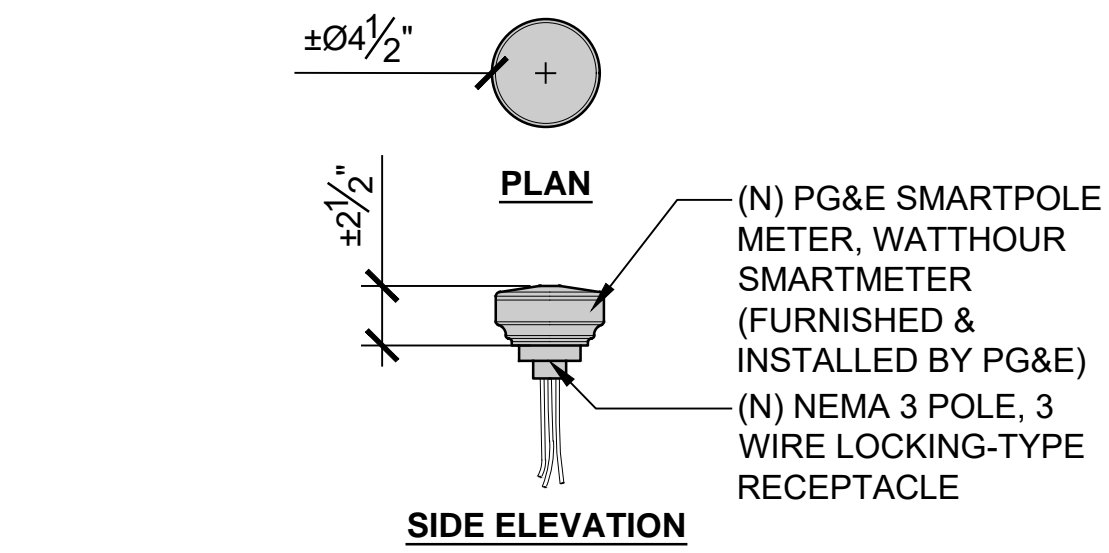
SCALE: N.T.S 1



- NOTES:**
1. NEW FRP CONCEALMENT SHROUD, GALVANIZED SHEET METAL SKIRT, ANTENNA/ LIGHT POLE MOUNT AND MOUNTING COMPONENTS BY WESTERN UTILITY/ TELECOM, INC. (PHONE: 503-587-0101) (ID#210).
 2. FRP CONCEALMENT SHROUD MOUNT TO LIGHT POLE BY WESTERN UTILITY/ TELECOM, INC.
 3. PAINT NEW FRP SHROUD AND EXPOSED MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 4. POWDER COAT NEW GALVANIZED SHEET METAL SKIRT AND EXPOSED MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 5. GROUND NEW ANTENNA PER MANUFACTURER'S SPECIFICATIONS.

CONCEALMENT SHROUD

SCALE: N.T.S 7

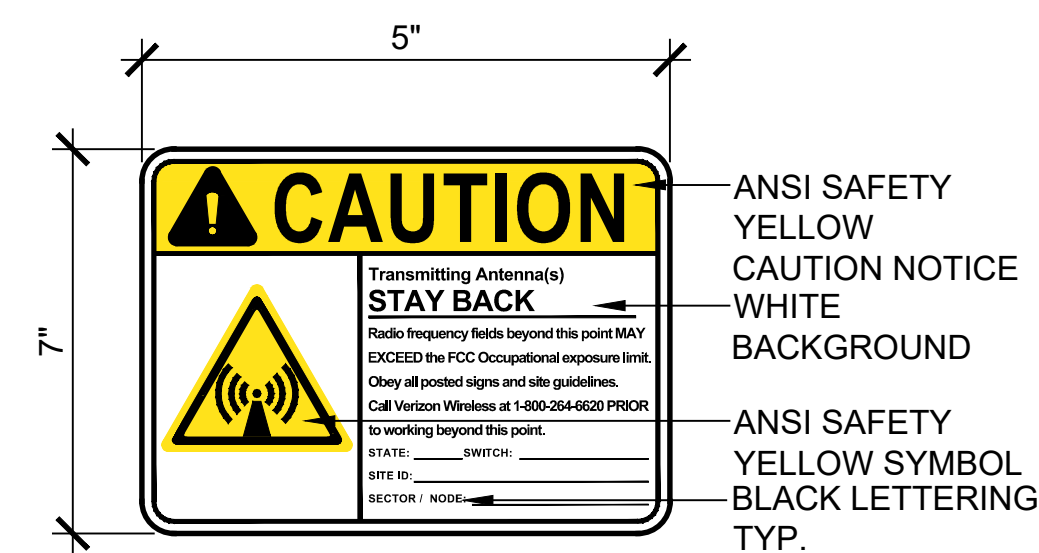


PG&E SMARTPOLE METER DIMENSIONS	
DIAMETER	±4.5"
HEIGHT	±2.5"
PG&E SMARTPOLE METER WEIGHT	
WEIGHT	±3 LBS.

- NOTES:**
1. PG&E CODE# M241490.
 2. PG&E TO PERFORM RF SIGNAL TEST.
 3. INSTALL IN STRICT ACCORDANCE WITH PG&E UTILITY BULLETIN FOR SMARTPOLE METER SERVICE.

WIRELESS METER

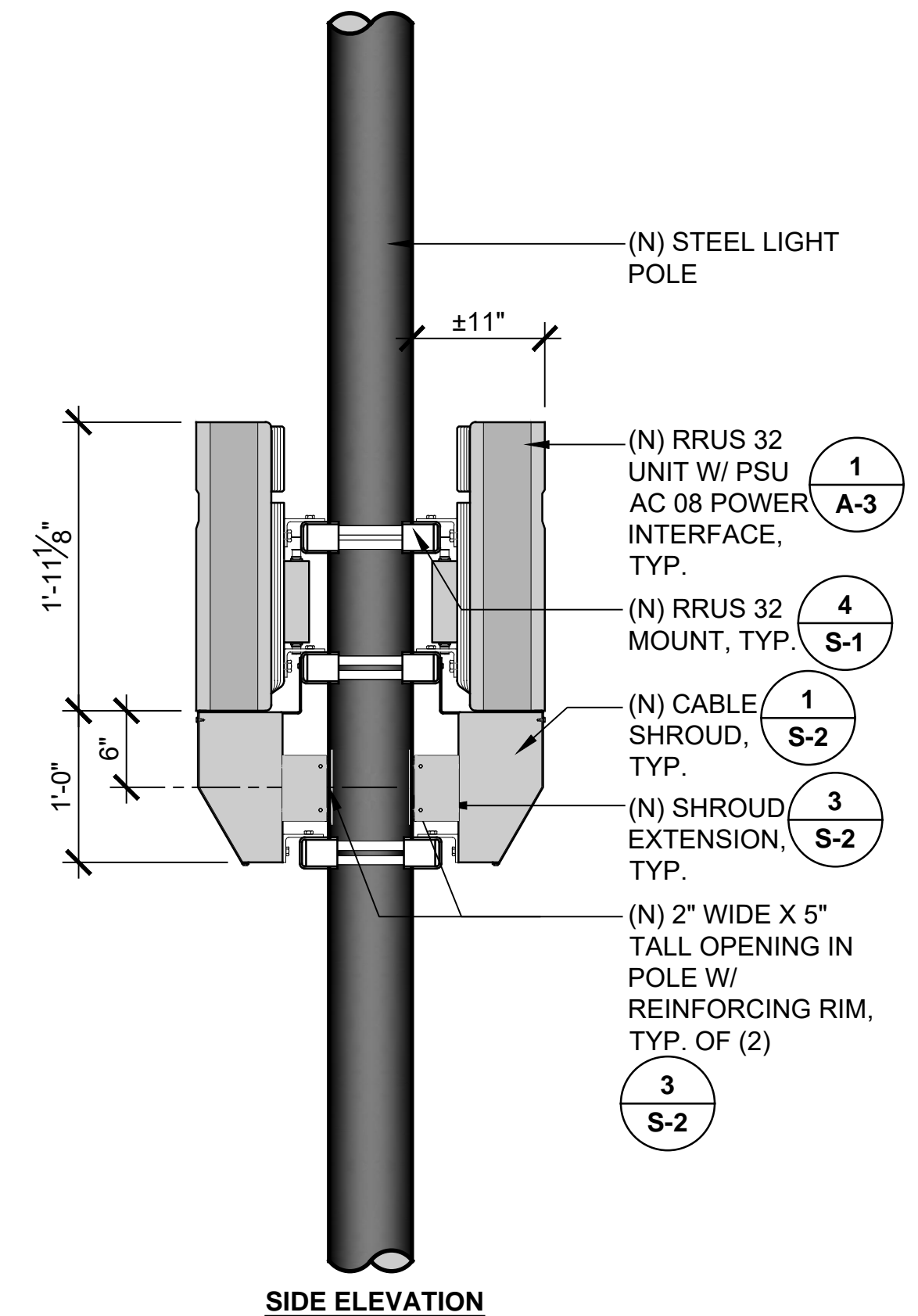
SCALE: N.T.S 4



- NOTES:**
1. OUTDOOR RATED SELF ADHESIVE VINYL DECAL WITH UV, CHEMICAL, ABRASION AND MOISTURE RESISTANCE.
 2. POST SIGN/ DECAL 9'-0" BELOW BOTTOM OF NEW ANTENNA.
 3. CONTRACTOR TO CONFIRM SPECIFIC SIGN REQUIREMENTS WITH VERIZON WIRELESS, THE CITY OF CUPERTINO, FCC AND AUTHORITIES HAVING JURISDICTION PRIOR TO FABRICATION.
 4. SIGN SHALL LIST/ DISPLAY OWNERSHIP COMPANY'S NAME, CONTACT NUMBER AND SPECIFIC SITE IDENTIFICATION.
 5. SIGN COLORS, SYMBOLS AND LAYOUT SHALL CONFORM TO ANSI Z535.1, ANSI Z535.2 AND ANSI C95.2-2007.

SIGNAGE/ DECAL

SCALE: N.T.S 5



- NOTES:**
1. PRIME AND PAINT RRUS 32 UNITS, CABLE SHROUDS, TUBE ASSEMBLY AND MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 2. SEE SPECIFICATIONS SECTION 09 00 00 FOR PAINTING AND COATING SPECIFICATIONS.

RRUS UNIT MOUNT ELEV.

SCALE: N.T.S 2

411 DONDEE WAY, UNIT C
PACIFICA CA 194044
415.608.3670 PHONE | 415.963.4471 FAX
INFO@JVARCHITECT.COM
WWW.JVARCHITECT.COM

CLIENT



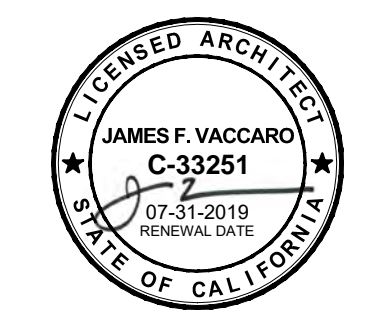
MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

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SHEET TITLE

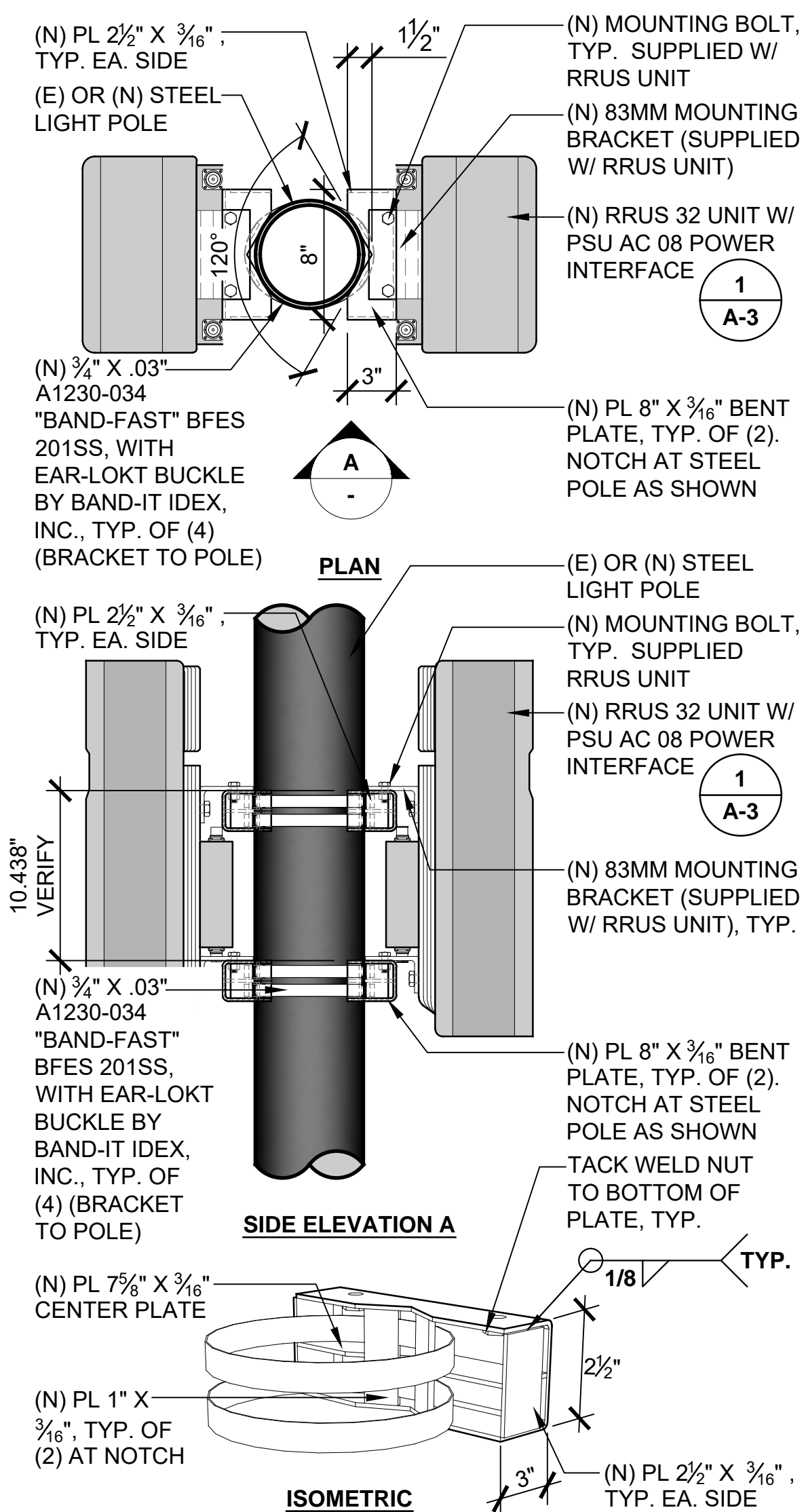
DETAILS

SHEET NUMBER

A-3

NOT USED

SCALE: N.T.S 3

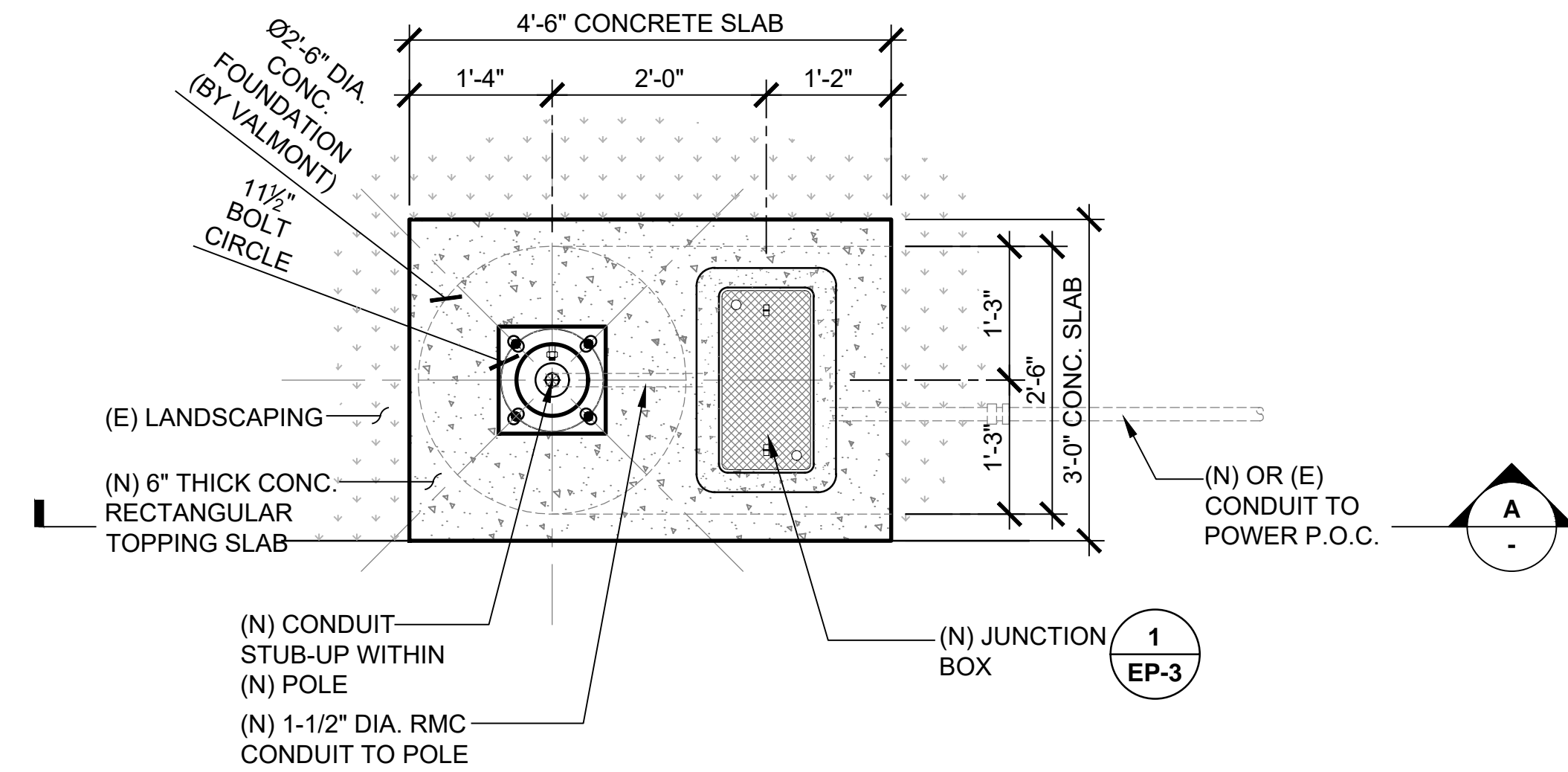


- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER CLEARANCE FOR PSU AC08 UNIT.
 - PRIME AND PAINT MOUNTING COMPONENTS WITH TNEPEC EXTERIOR PAINT COATING TO MATCH POLE.
 - WELD ALL STEEL PLATE COMPONENTS WITH 1/8" FILLET WELDS.

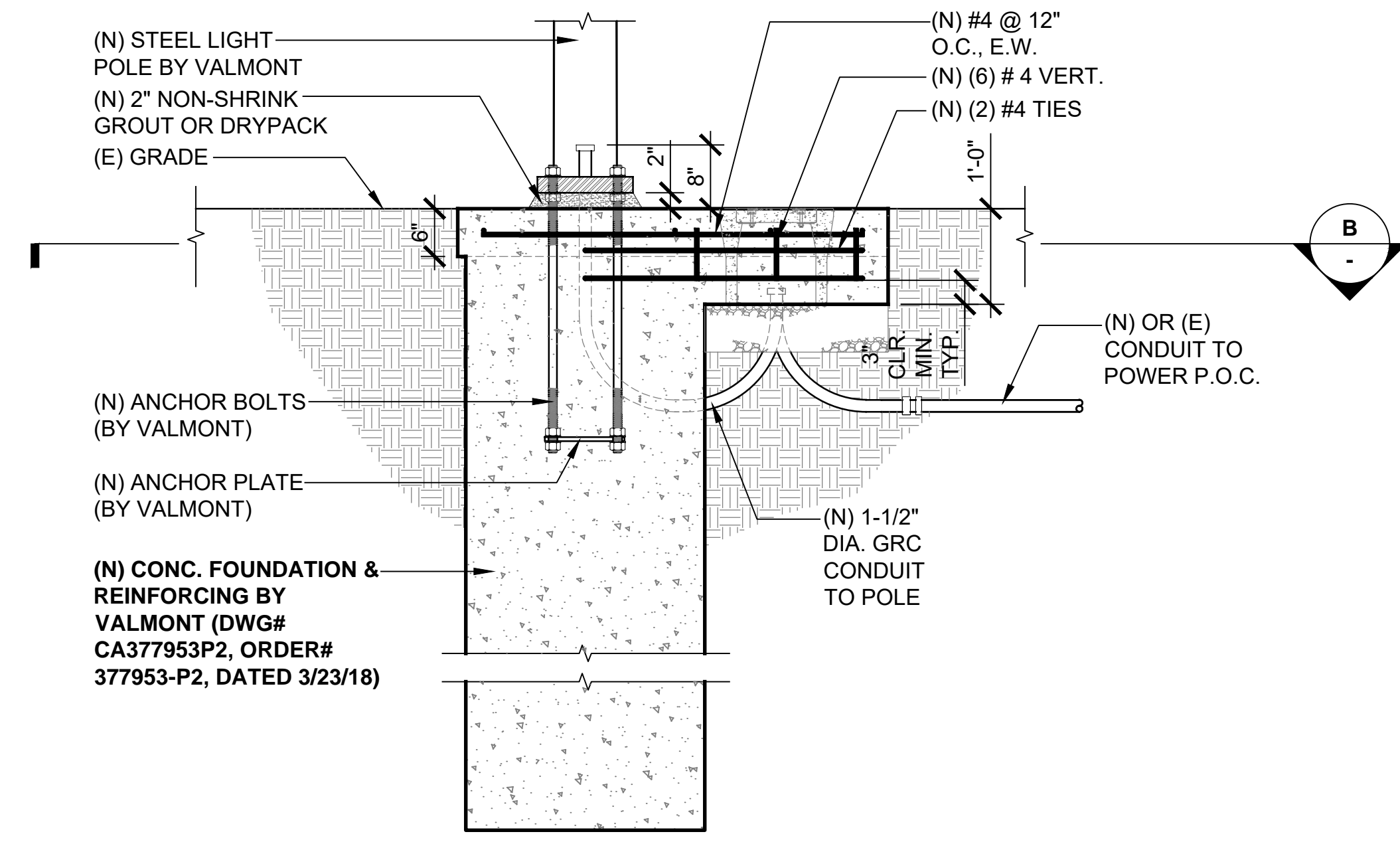
RRUS 32 MOUNTING

SCALE: N.T.S 4

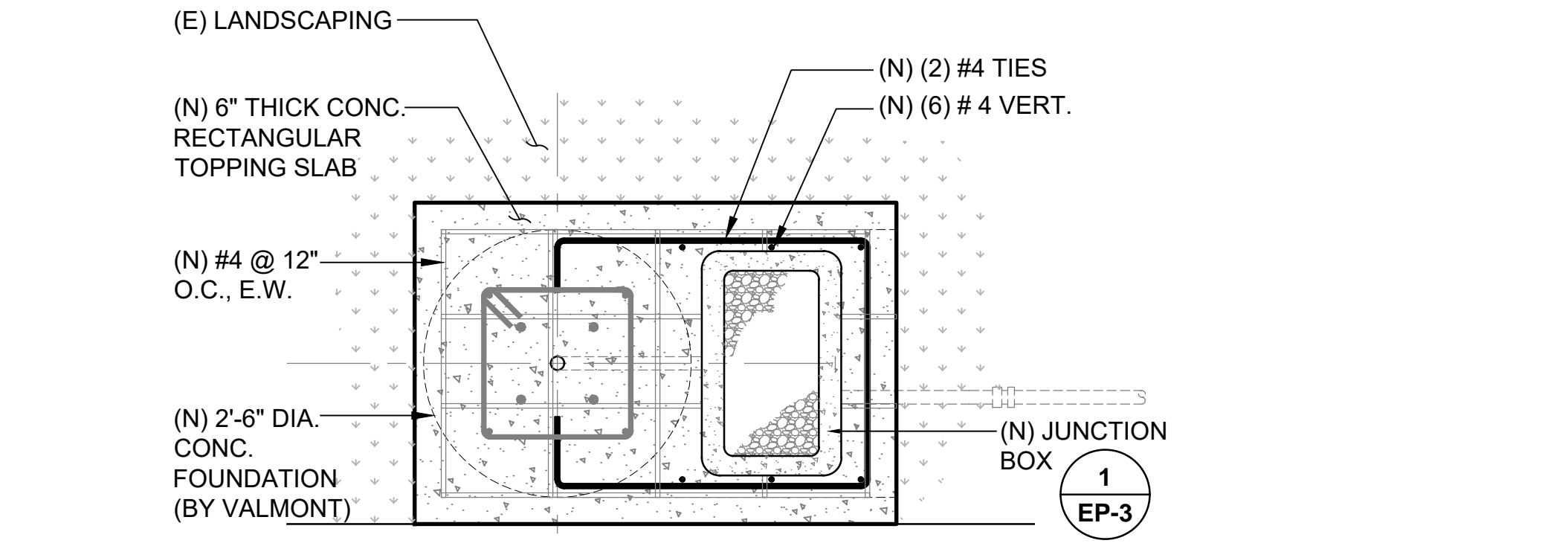
LIGHT POLE FOUNDATION TOPPING SLAB



PLAN



SECTION A



SECTION B

NOTES:

- DEMO EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING AND PLACEMENT OF NEW FOUNDATION AND TOPPING SLAB. REPLACE EXISTING SIDEWALK IN KIND.
- PROTECT EXISTING CONCRETE CURB IN PLACE.
- ANCHOR BOLTS AND RACEWAYS SHALL BE SECURED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
- USE POLE MANUFACTURER PROVIDED TEMPLATE FOR PLACEMENT OF ANCHOR BOLTS. REMOVE ALL GREASE, OIL, DIRT AND CONTAMINANTS FROM ANCHOR BOLTS WITH SUITABLE SOLVENT. CENTER ANCHOR BOLT GROUP ON CONCRETE FOUNDATION. PLACE ANCHOR BOLTS IN A PLUMB POSITION. POINT HOOKS TOWARD THE CENTER OF THE FOUNDATION. VERIFY REQUIRED ANCHOR BOLT PROJECTION.
- CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED PRIOR TO ERECTION OF NEW LIGHT POLE.
- THE FOUNDATION SHALL CURE A MINIMUM OF (7) DAYS PRIOR TO INSTALLATION OF POLE.

LIGHT POLE FOUNDATION TOPPING SLAB

SCALE: N.T.S 2

Structural Notes

GENERAL NOTES

- APPLICABLE CODES: 2016 CALIFORNIA BUILDING CODE (CBC), 2013 AASHTO LTS-6, TIA 222, REVISION G.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, APPLICABLE JURISDICTION CODES, AND REQUIREMENTS OF THE CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS.
- THE CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE AGENCIES INFORMED OF THEIR SCHEDULE.
- GENERAL CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS WITH DRAWINGS OF OTHER DISCIPLINES WITH REFERENCE TO MATERIALS, LAYOUT, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER FOR DIRECTION.
- THE DRAWINGS SHALL NOT BE SCALED. ALL WORK SHALL BE GOVERNED BY EXISTING FIELD DIMENSIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN AND BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- DETAILS OF CONSTRUCTION NOT INDICATED OR NOTED SHALL BE CONSIDERED OF THE SAME CHARACTER SHOWN FOR SIMILAR OR EXISTING CONSTRUCTION.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITY LINES AND CONNECTIONS INCLUDING SEWER, WATER, GAS, AND ELECTRIC SERVICES BEFORE AND DURING THE WORK.
- CONTRACTOR SHALL COORDINATE THEIR WORK WITH CITY REQUIREMENTS.
- DESIGN DATA:
DESIGN CODES: 2016 CBC, TIA 222 REVISION G, 2013 AASHTO LTS-6
SEISMIC IMPORTANCE FACTOR $I_p = 1.0$
OCCUPANCY CATEGORY = II
MAPPED SPECTRAL RESPONSE:
ACCELERATIONS
 $S_s = 1.945g$ $S_1 = 0.717g$
SITE CLASS = D
SITE COEFFICIENT $F_a = 1.00$
SITE COEFFICIENT $F_v = 1.50$
WIND SPEED = 100 MPH (3-SECOND GUSTS) PER 2013 AASHTO LTS-6

CONCRETE NOTES

- CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI. DESIGN BASED ON 2,500 PSI (NO SPECIAL INSPECTION REQUIRED).
- SLUMPS SHALL BE NOT LESS THAN 2" AND NOT EXCEED 4".
- CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED BETWEEN PREDETERMINED CONSTRUCTION JOINTS. CONCRETE SHALL BE OF A CONSISTENCY TO PERMIT PLACING COMPLETELY AROUND REINFORCING BARS AND AGAINST FORMS.
- EXPOSED SURFACES OF CONCRETE SHALL BE KEPT MOIST OR CURED BY PROTECTIVE COVERINGS APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- FORMS SHALL BE TIGHT, CLEAN AND WETTED BEFORE PLACING CONCRETE.

REINFORCING STEEL NOTES

- REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 40 FOR #4 AND SMALLER, GRADE 60 FOR #5 AND LARGER. TIE WIRES TO BE 18 GA, OR HEAVIER, BLACK ANNEALED.
- REINFORCING BARS SHALL BE FREE FROM LOOSE RUST OR ANY OTHER COATING WHICH WILL REDUCE BOND.
- REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN A MANNER WHICH WILL DAMAGE THE MATERIAL, AND SHALL BE ACCURATELY PLACED AND POSITIVELY SECURED.
- MORTAR BLOCKS OR OTHER APPROVED METHOD OF SUPPORT SHALL BE USED AT SLABS-ON-GRADE.

STRUCTURAL STEEL NOTES

- MATERIALS:
ALL STRUCTURAL STEEL ASTM A36, U.O.N.
STEEL PIPE ASTM A53, GRADE B
TUBE STEEL ASTM A500, GRADE B
ANCHOR BOLTS ASTM F1554, GRADE 55
MACHINE BOLTS ASTM A307
HEXAGON NUTS ASTM A194 2H OR ASTM A563 DH
WASHERS ASTM F436
- ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC STANDARDS BY A LICENSED FABRICATOR EMPLOYING CERTIFIED WELDERS.
- WELDING SHALL CONFORM TO APPLICABLE SECTIONS OF LATEST AWS STRUCTURAL WELDING CODE AND SHALL BE DONE BY CERTIFIED WELDERS.
- STEEL FABRICATOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF G-CD 8F5K-B; GDF-CF HC: 56F-75HCB"
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- SUPPLY AND INSTALL FASTENERS, FRAMING MEMBERS AND ANCHORS REQUIRED FOR MOUNTING AND ATTACHMENT OF EQUIPMENT.

REINFORCING RIM WELDING NOTES

- WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER. ALL WORK SHALL BE IN CONFORMANCE WITH THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1 LATEST EDITION.
- PREPARE POLE SURFACE. GRIND SURFACE TO BE WELDED WITH A SILICON CARBIDE WHEEL PRIOR TO WELDING TO REMOVE GALVANIZING WHICH MAY OTHERWISE BE CONSUMED IN THE WELD METAL. APPLY ANTI-SPLATTER COMPOUND AFTER GRINDING.
- MINIMIZE TEMPERATURE RISE ON THE INSIDE SURFACE OF THE LIGHT POLE AND VOLATILIZE ANY REMAINING ZINC WITHIN THE BASE METAL WITH MINIMUM SPLATTER.
- APPLY GALV-A-STICK ZINC COATING TO ALL UNPROTECTED SURFACES, UPON COMPLETION OF WELDING. APPLY SECOND COAT LAYER OF COLD GALVANIZING SPRAY COMPOUND CONTAINING A MINIMUM ZINC CONTENT OF 95%. APPLY A FINAL COAT OF TNEPEC EXTERIOR PAINT COATING TO MATCH POLE.

STRUCTURAL NOTES

1

JAMES VACCARO ARCHITECT, INC.

411 DONDRE WAY, UNIT C
PACIFICA CA 194044
415.608.3670 PHONE | 415.963.4471 FAX
INFO@JVARCHITECT.COM
WWW.JVARCHITECT.COM

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
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CONSULTANTS

STRUCTURAL ENGINEER:
JEFFREY M. VAN DYKE, S.E.
1470 FELTA ROAD
HEALDSBURG, CA 95448
CONTACT NUMBER: (707) 696-3721

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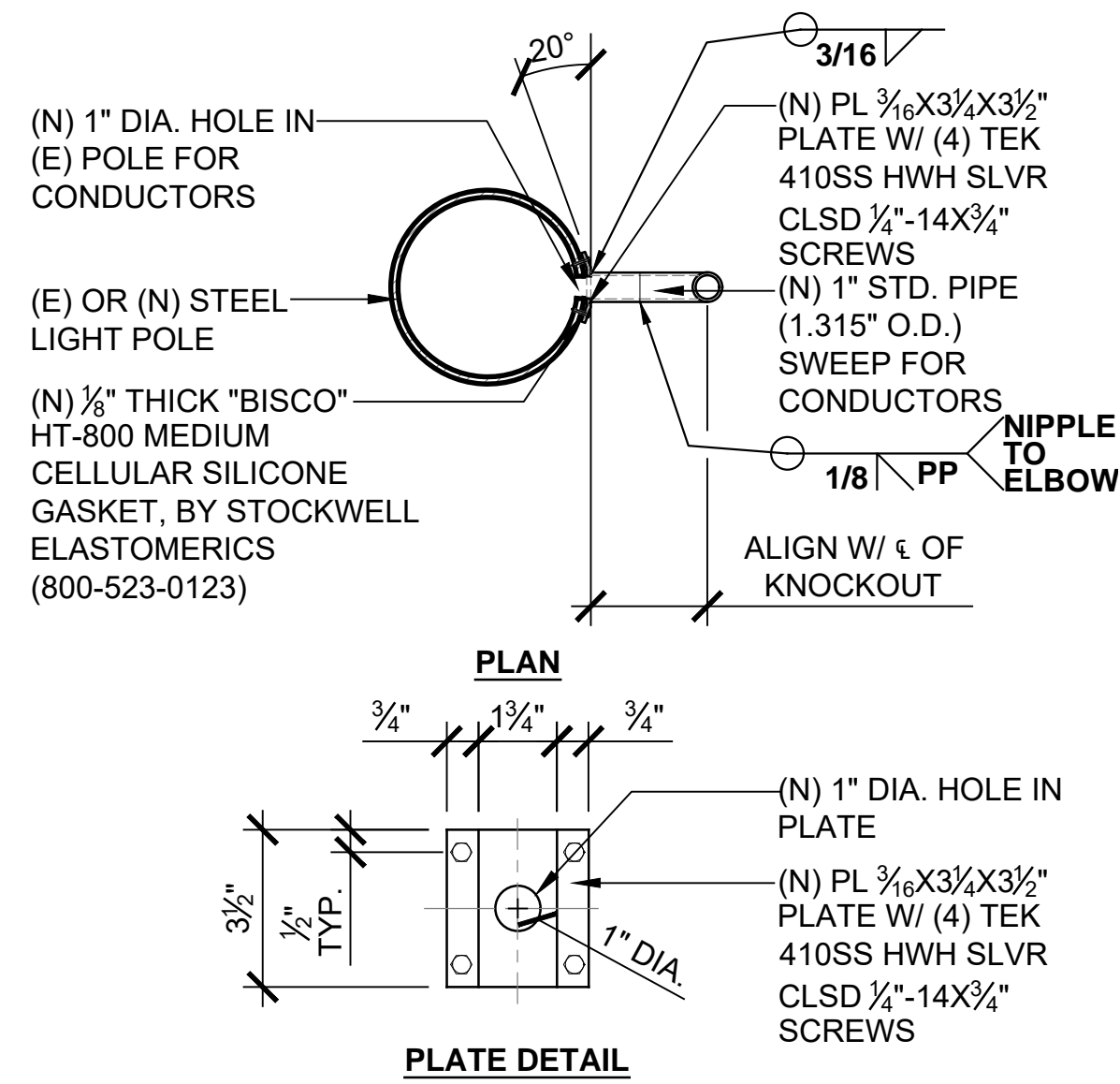
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SHEET TITLE

STRUCTURAL NOTES, DETAILS

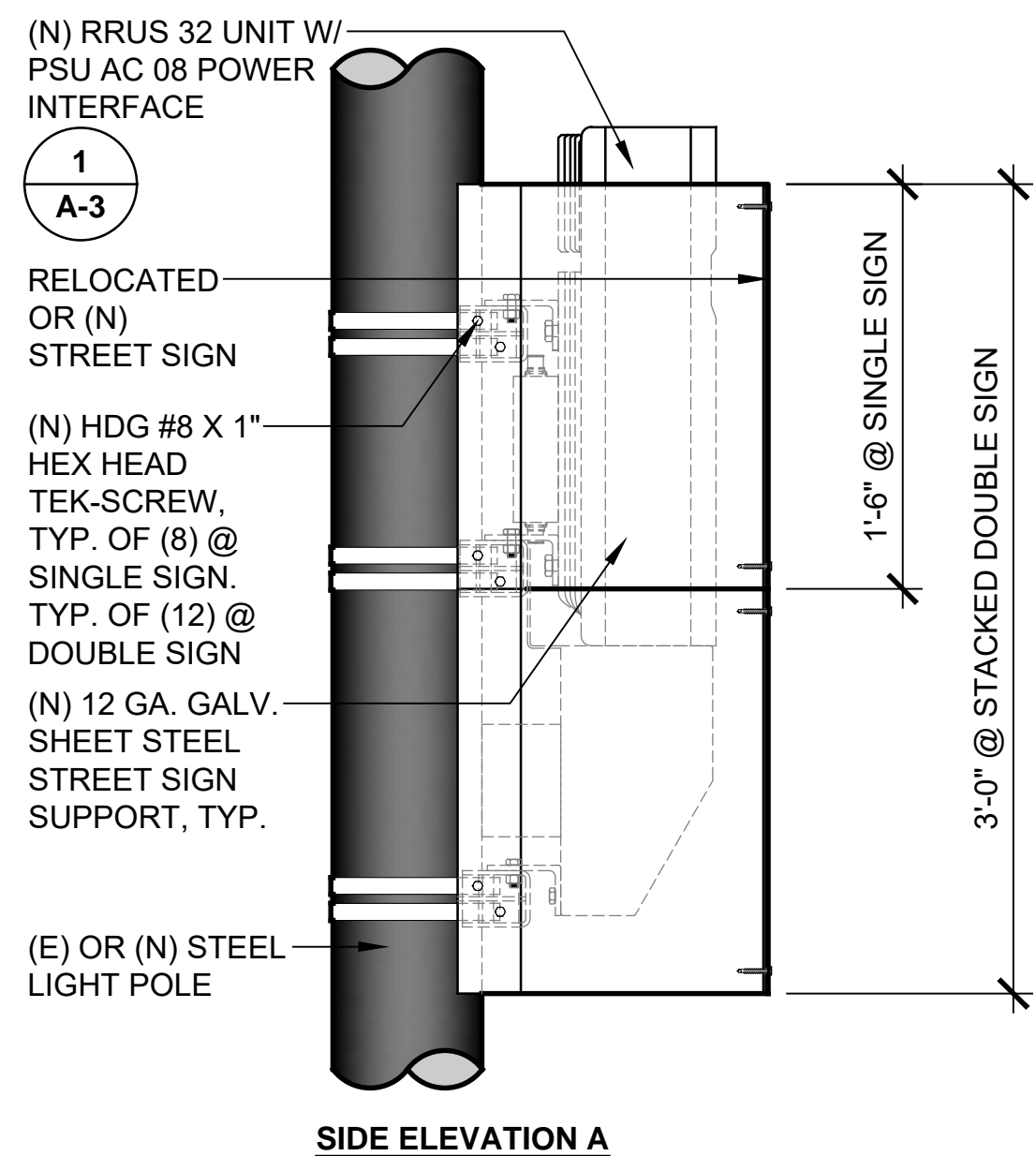
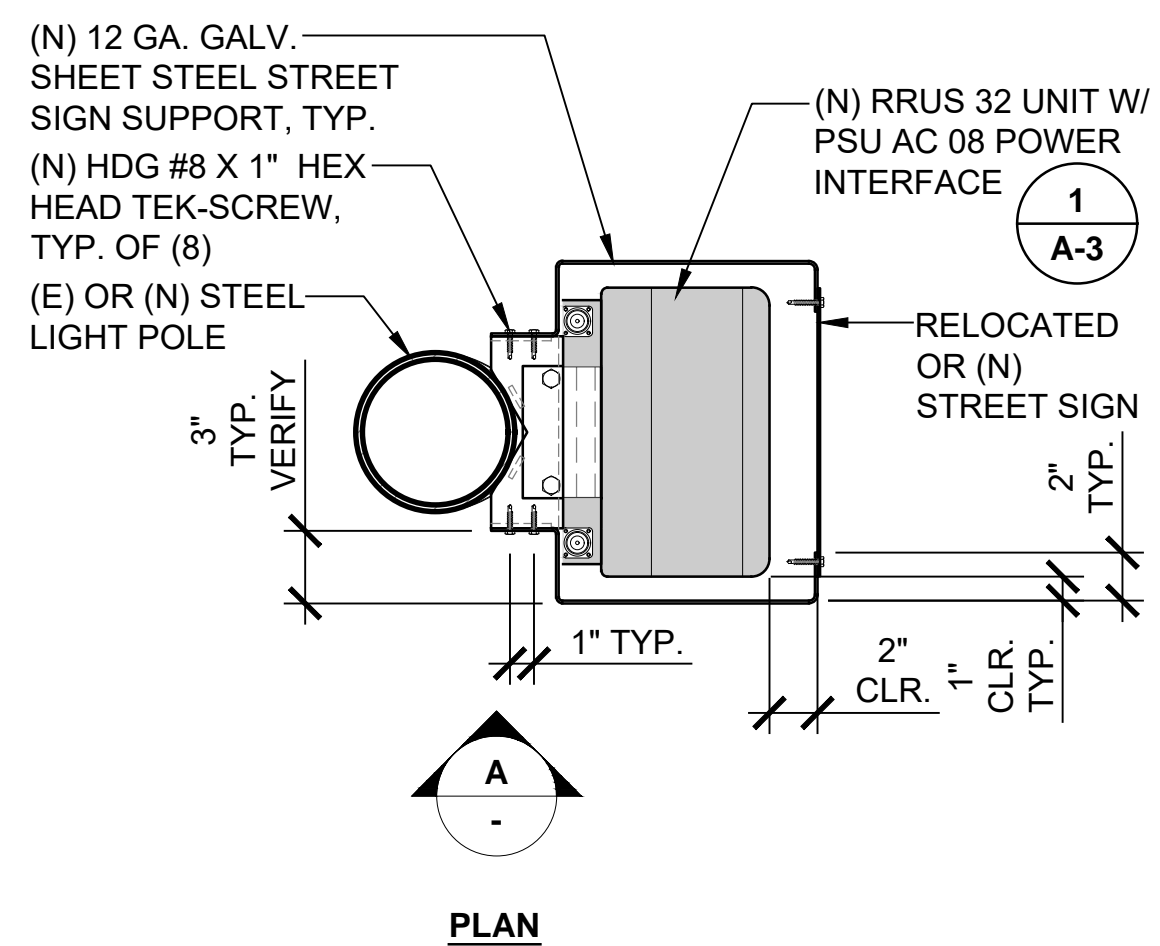
SHEET NUMBER

S-1



SWEEP SECTION

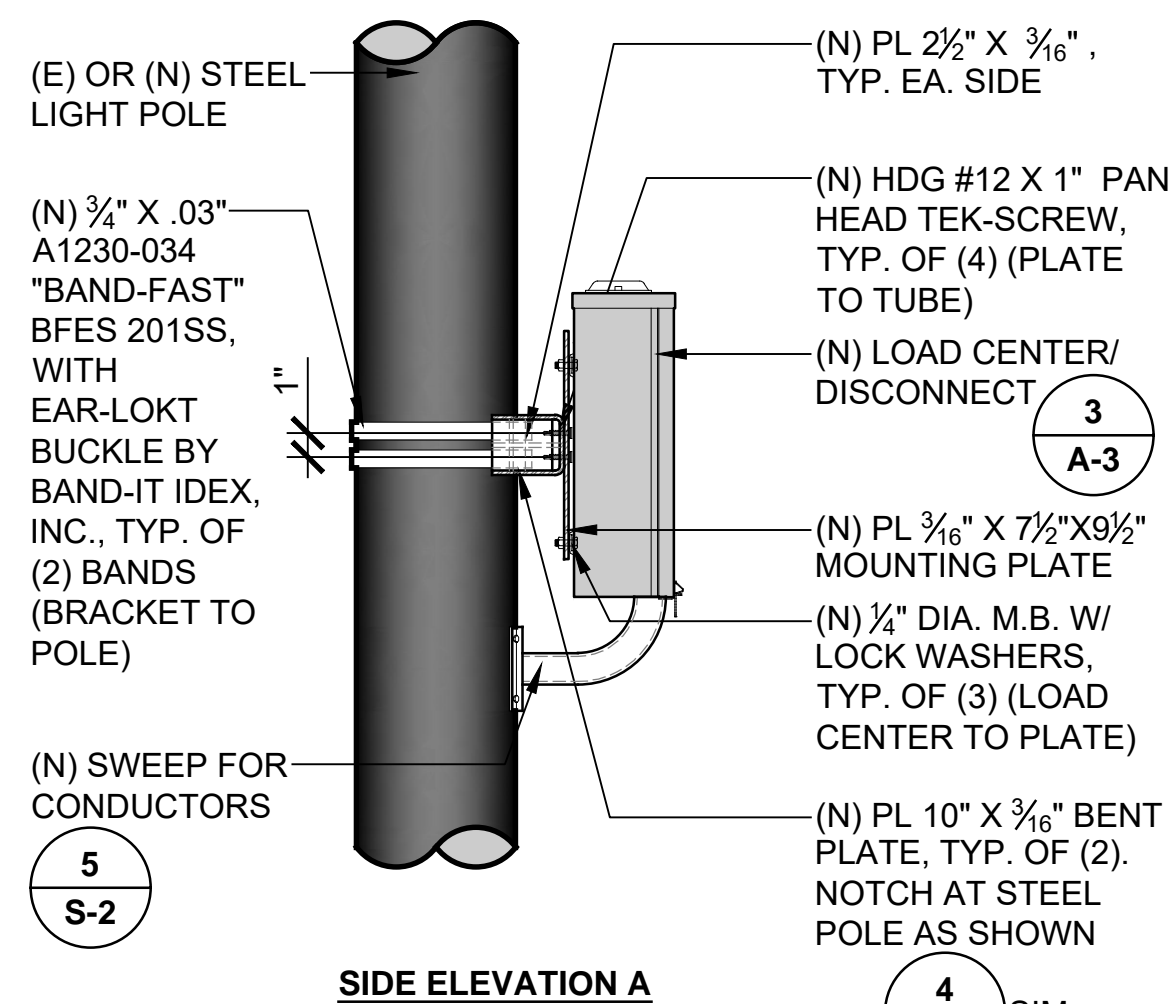
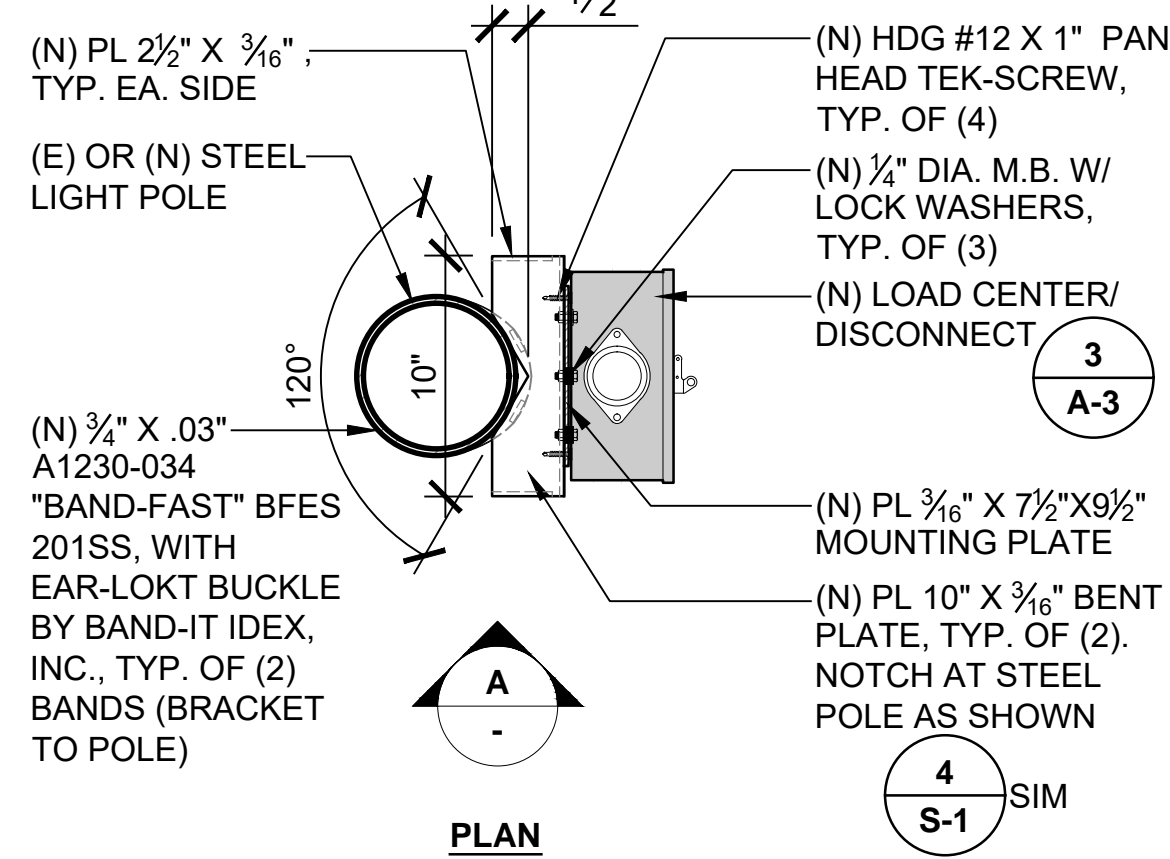
SCALE: N.T.S 6



- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER CLEARANCES FROM RRUS UNIT.
 - PRIME AND PAINT MOUNTING COMPONENTS WITH TNE MEC EXTERIOR PAINT COATING TO MATCH POLE.

SIGNAGE MOUNT

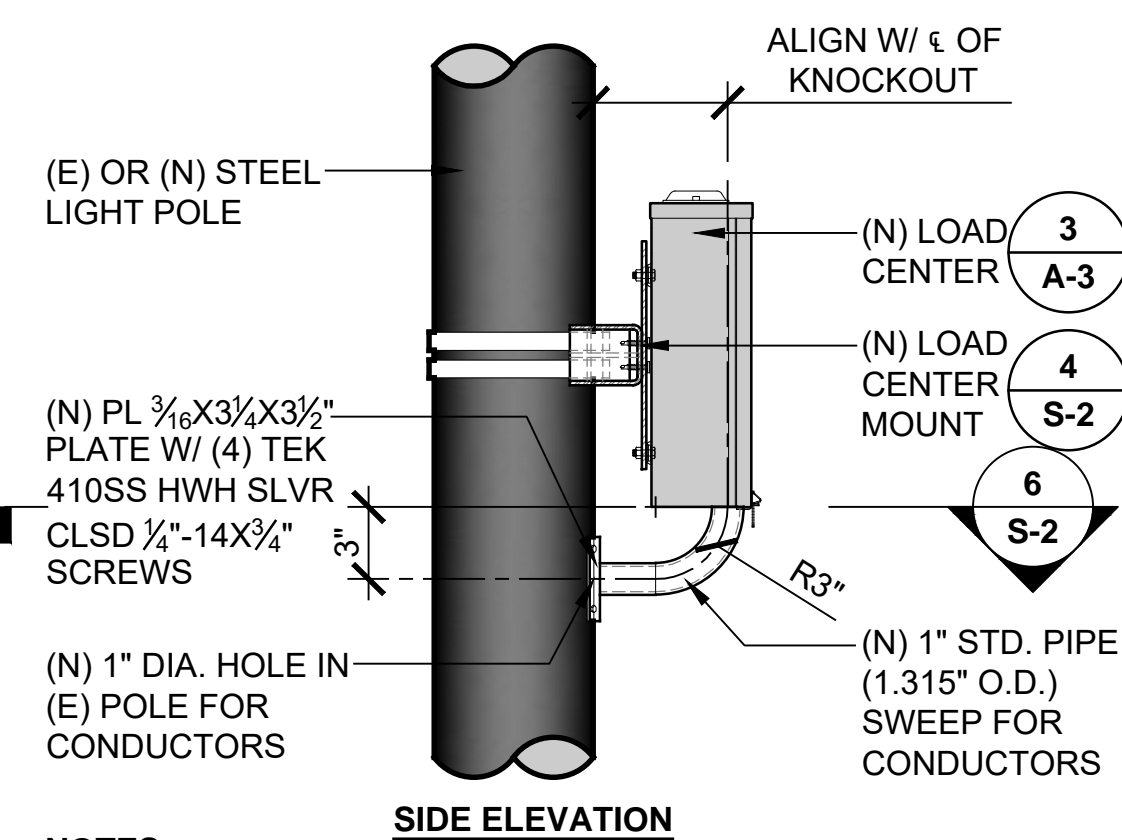
SCALE: N.T.S 7



- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER CLEARANCE FOR LOAD CENTER.
 - PRIME AND PAINT MOUNTING COMPONENTS WITH TNE MEC EXTERIOR PAINT COATING TO MATCH POLE.

LOAD CENTER MOUNT

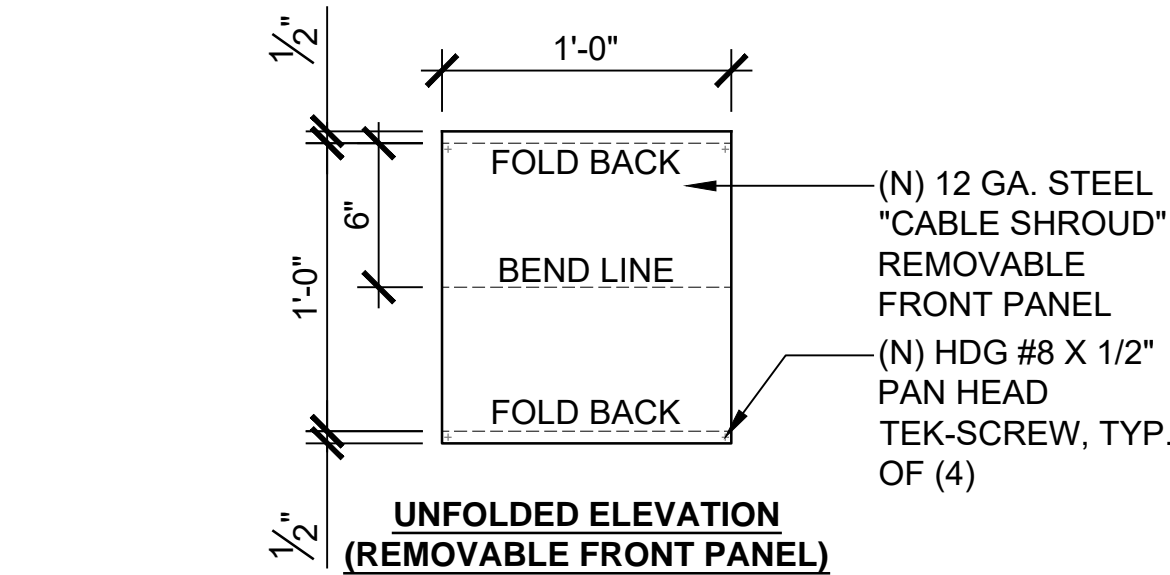
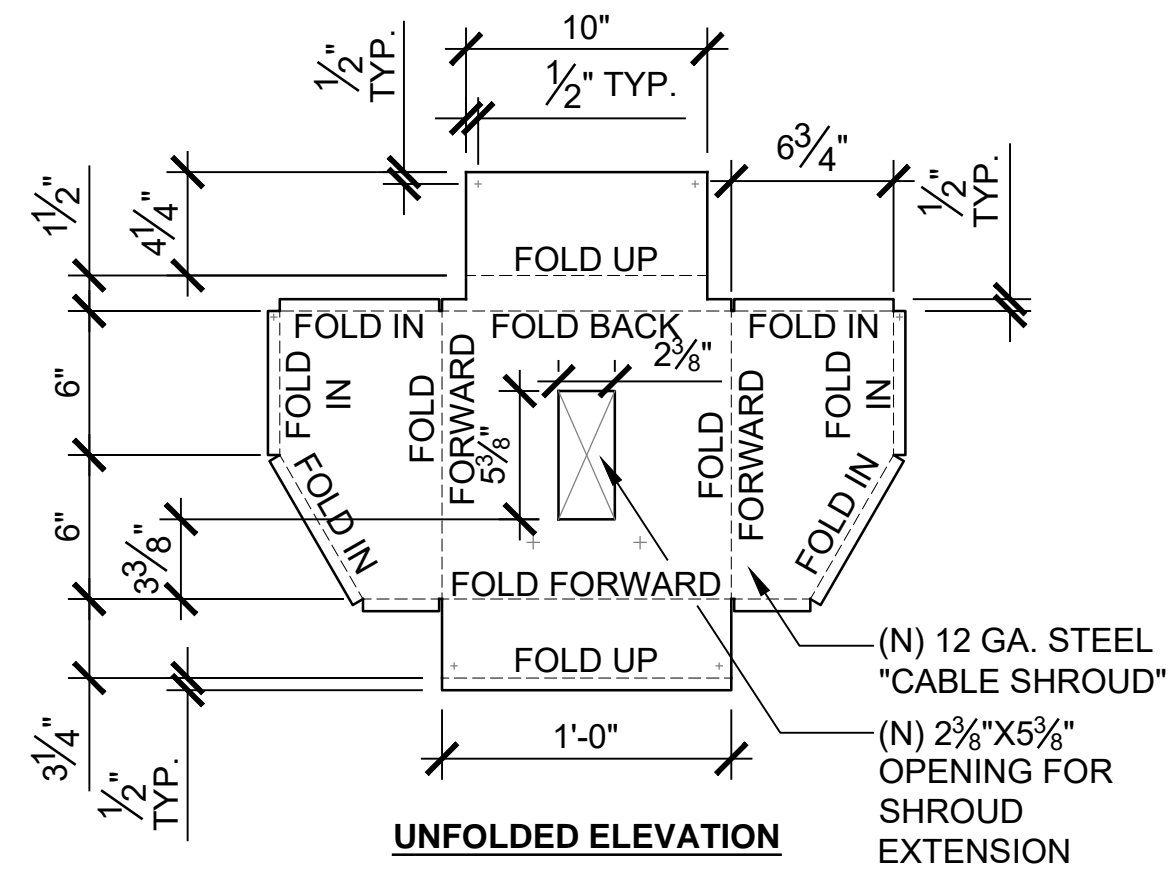
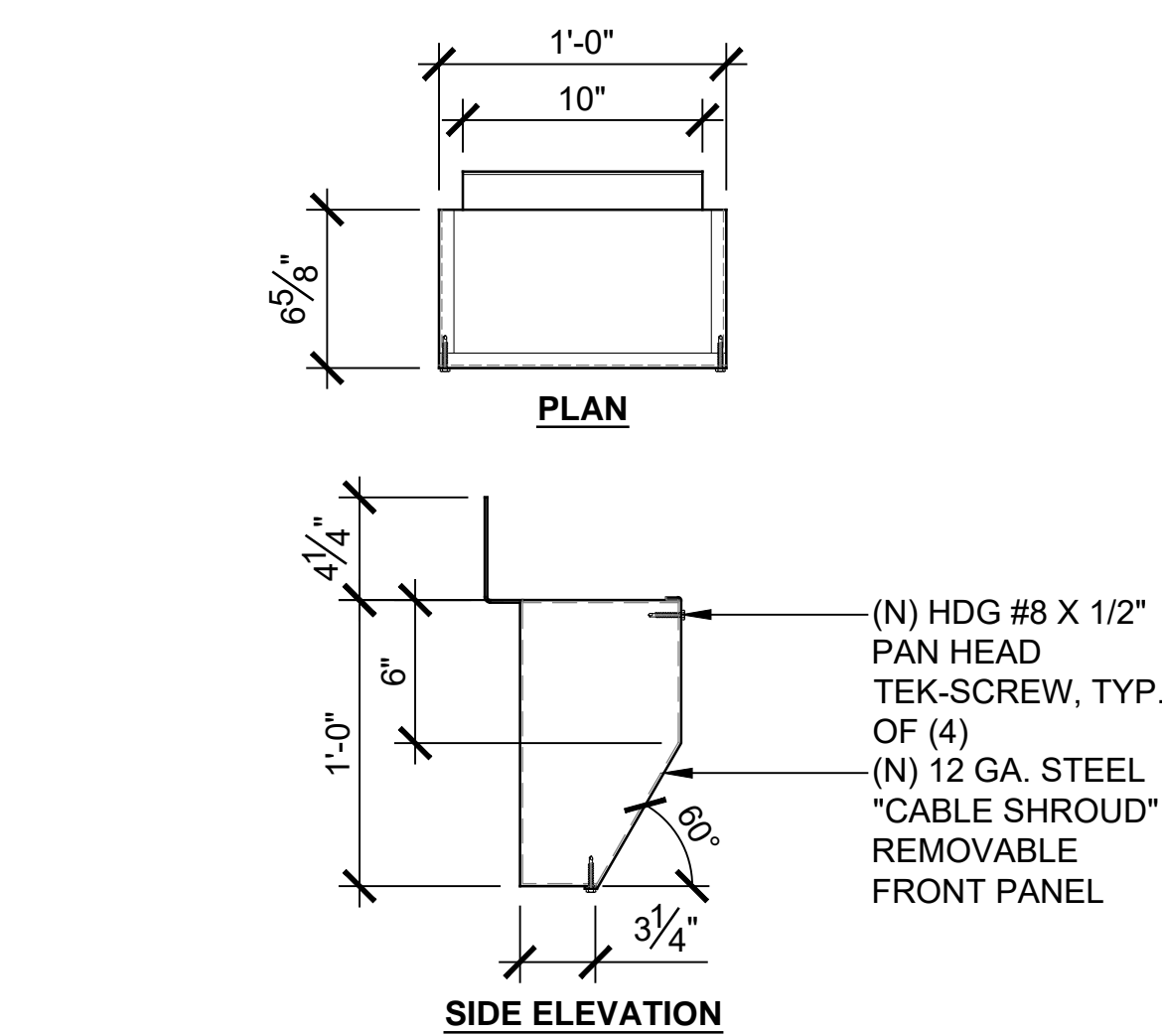
SCALE: N.T.S 4



- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER ALIGNMENT WITH LOAD CENTER KNOCKOUT.
 - PRIME AND PAINT COMPONENTS WITH TNE MEC EXTERIOR PAINT COATING TO MATCH POLE.

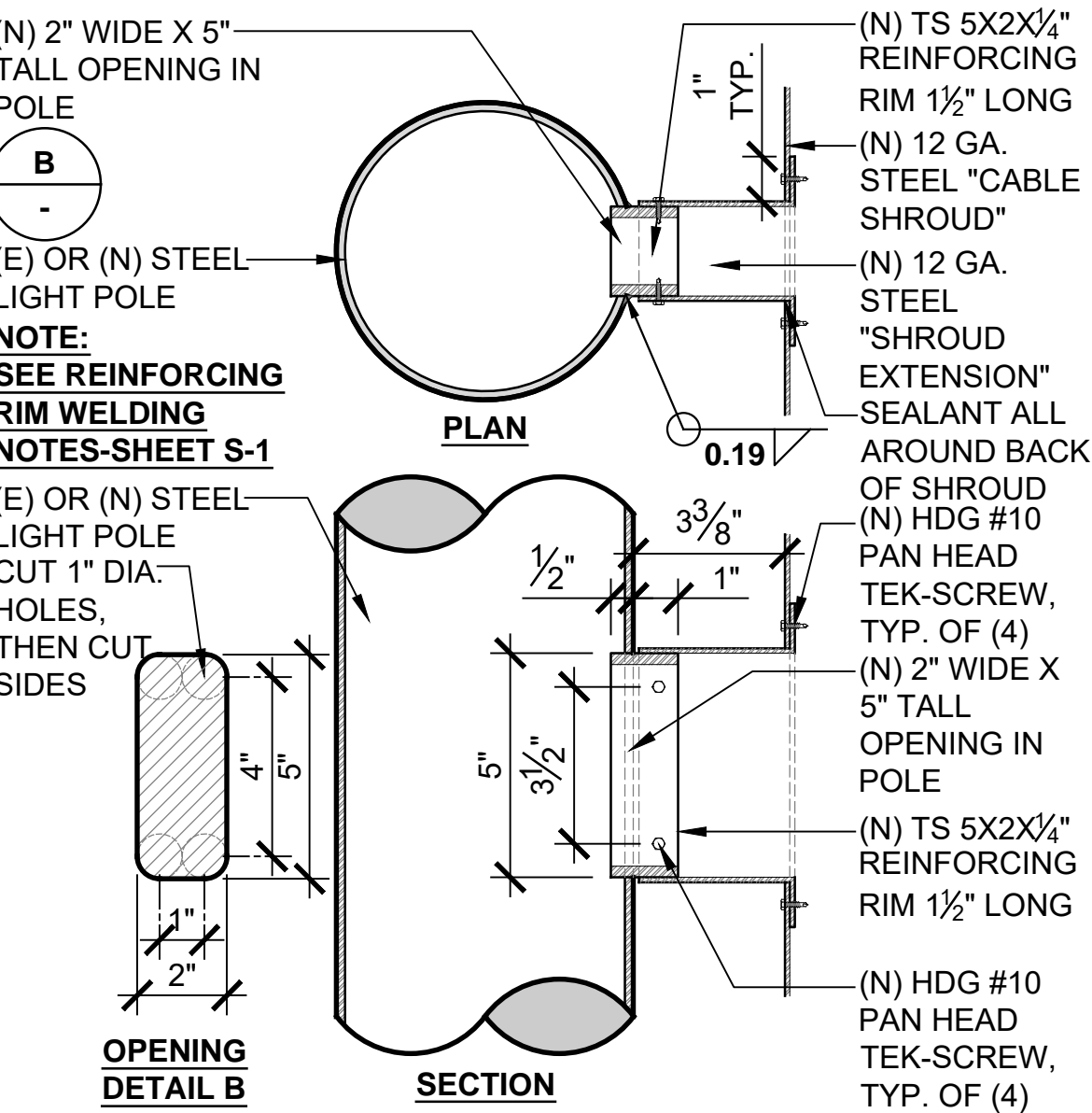
CONDUCTOR SWEEP

SCALE: N.T.S 5



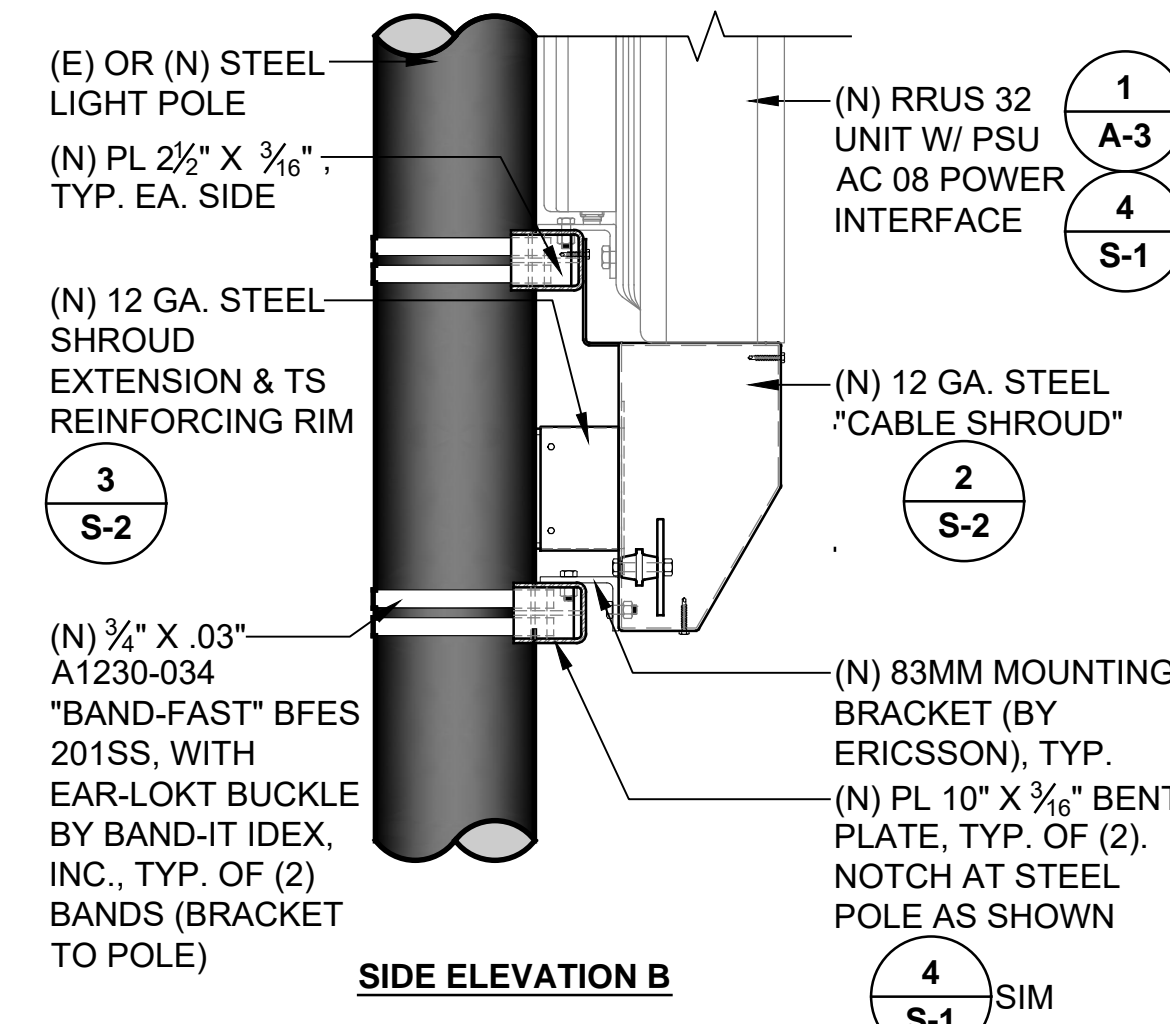
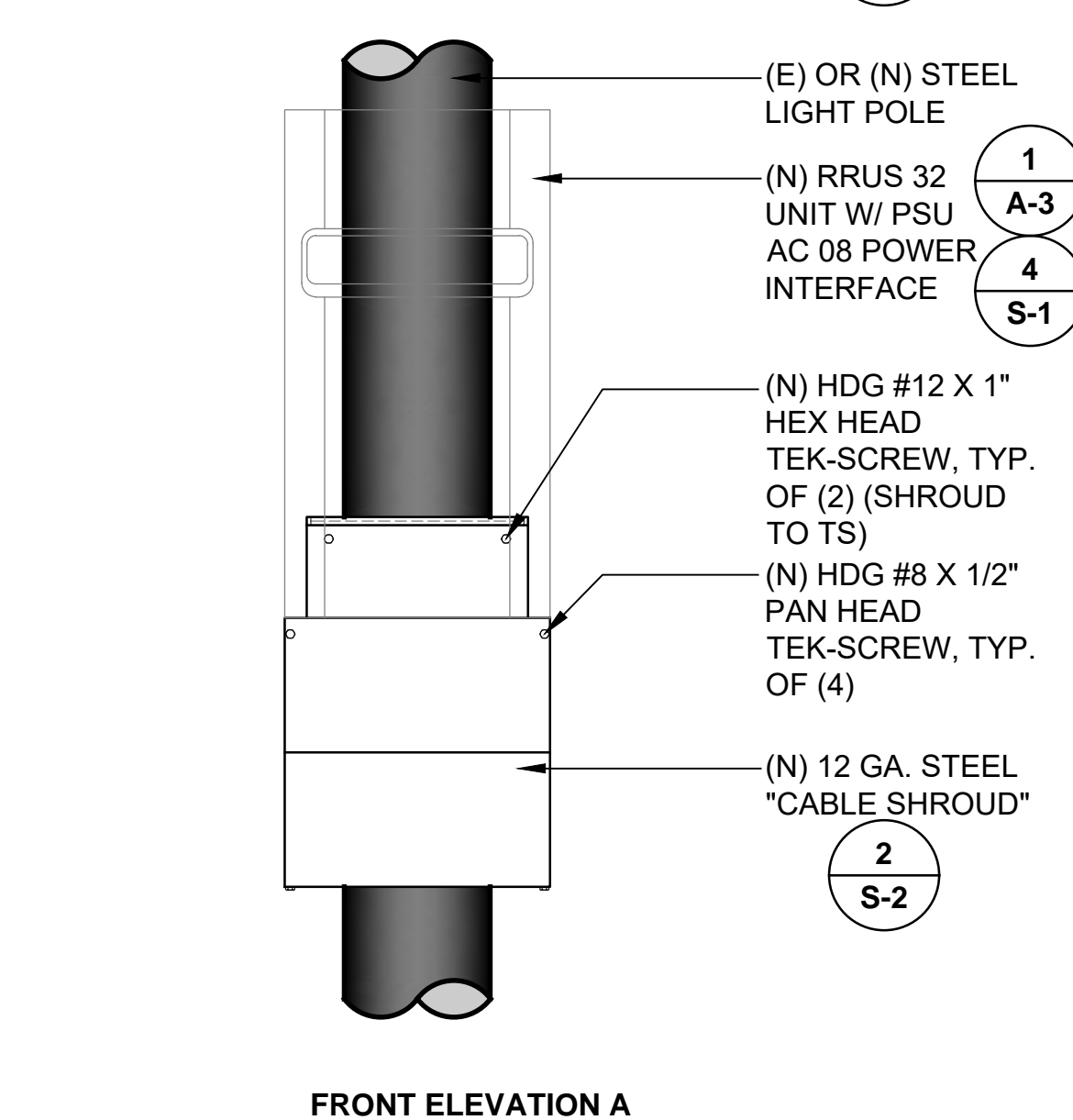
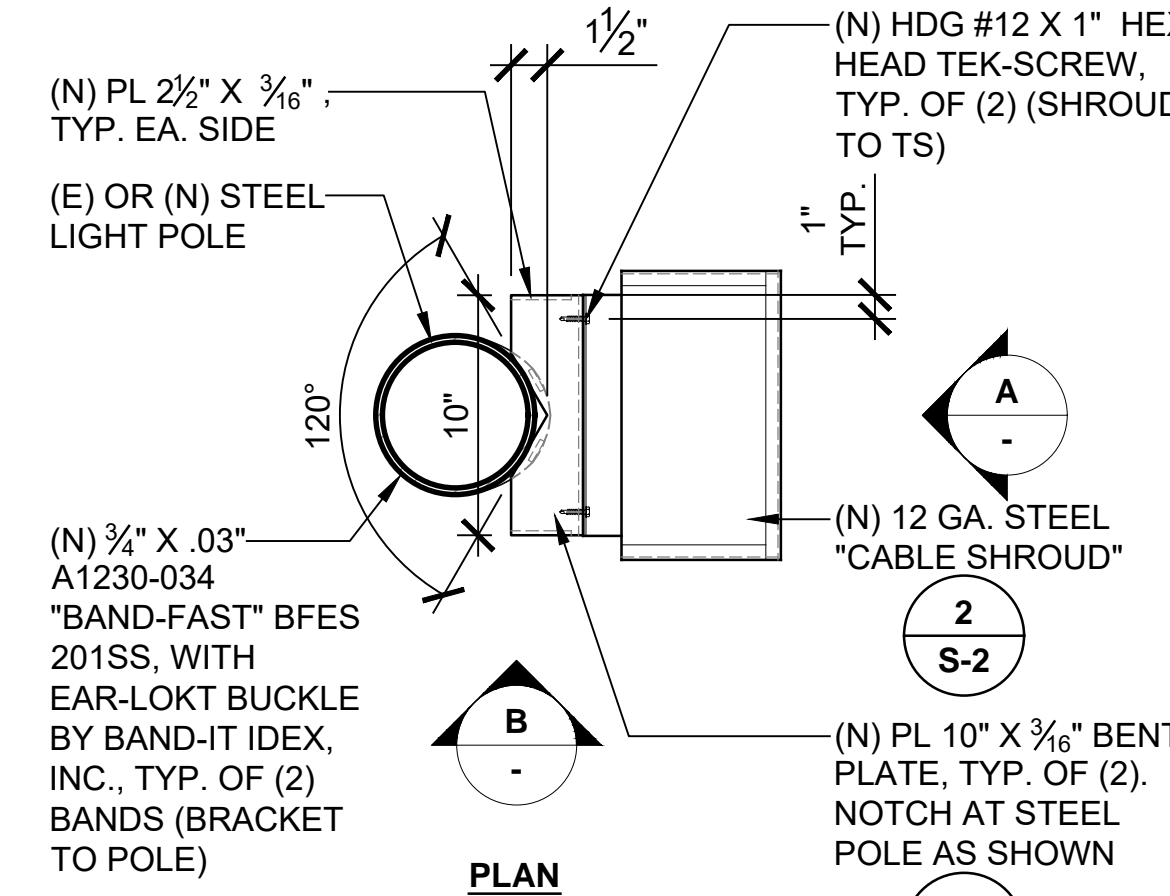
CABLE SHROUD

SCALE: N.T.S 2



REINFORCING RIM

SCALE: N.T.S 3



- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER FIT/ ALIGNMENT WITH RRUS UNIT ABOVE.
 - PRIME AND PAINT MOUNTING COMPONENTS WITH TNE MEC EXTERIOR PAINT COATING TO MATCH POLE.
 - SEE REINFORCING RIM NOTES SHEET S-1.

CABLE SHROUD MOUNT

SCALE: N.T.S 1

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



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CONSULTANTS

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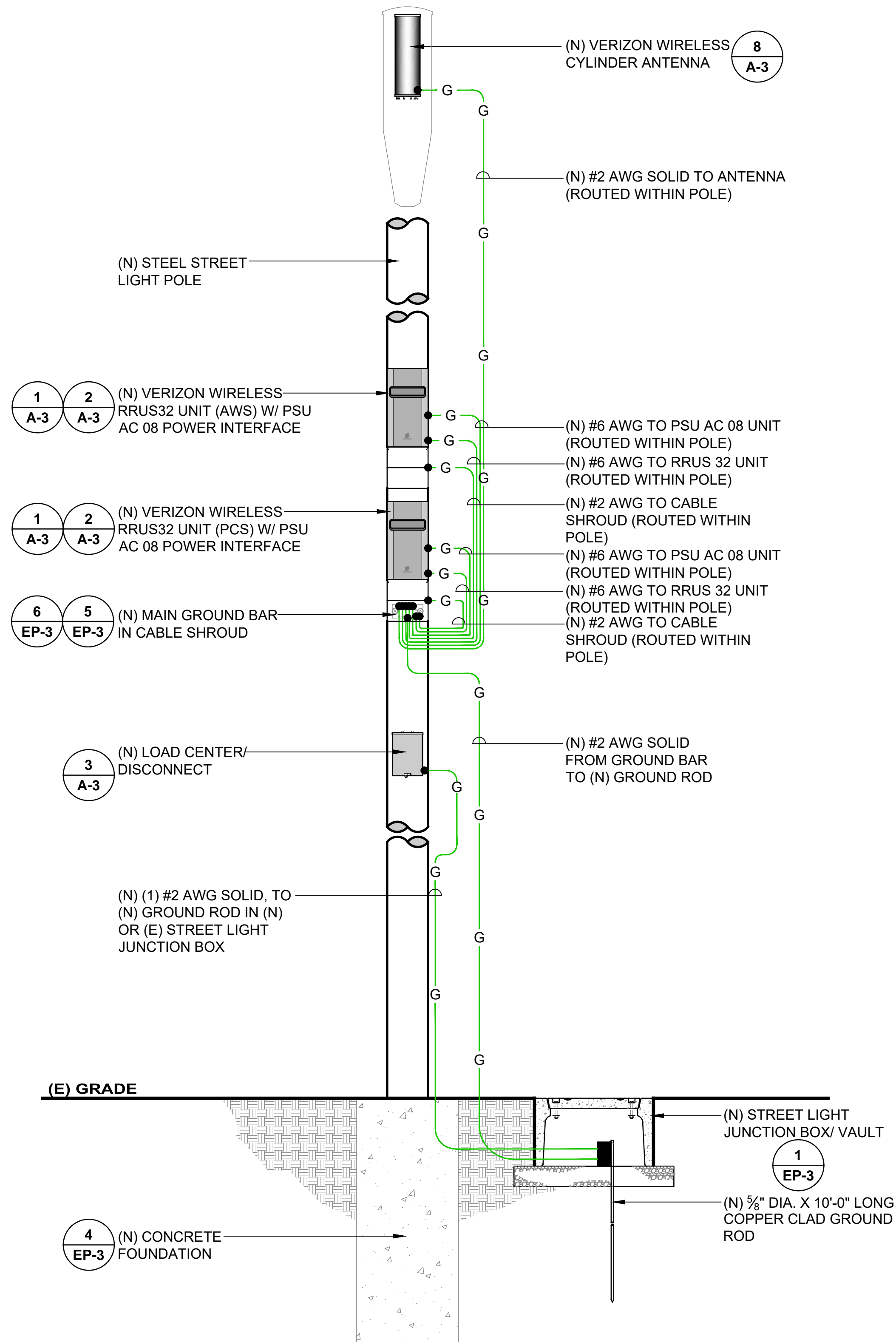
DETAILS

SHEET NUMBER

S-2

NOTES:

1. ALL GROUND ELECTRODE SYSTEMS SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
2. PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEM. PROVIDE SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. EACH RRU UNIT AND PSC AC UNIT SHALL BE DIRECTLY CONNECTED TO THE GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG COPPER OR LARGER.
4. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
5. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
6. GROUND CONDUCTORS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED.

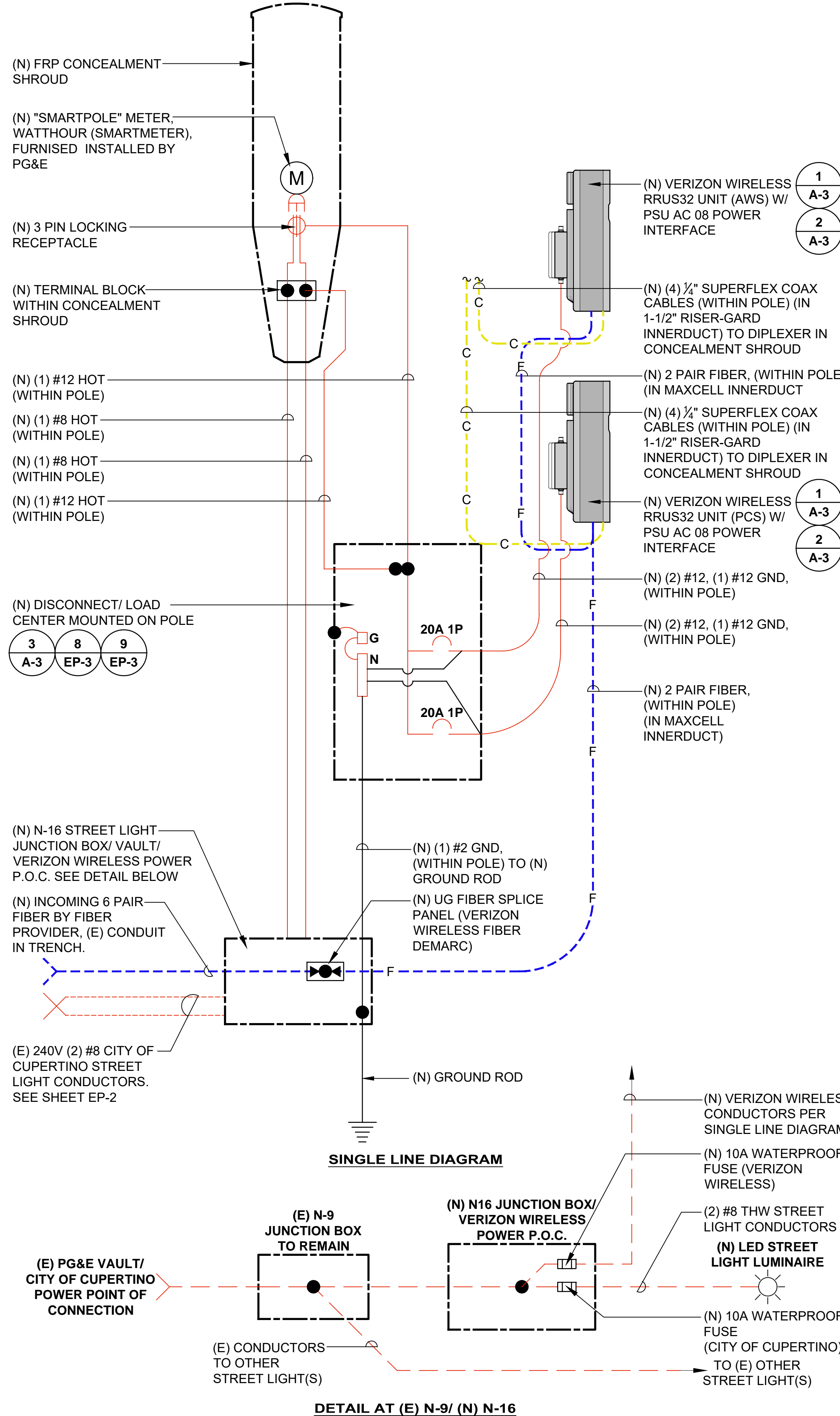


EQUIPMENT GROUNDING DIAGRAM

SCALE: N.T.S. 2

NOTES:

1. PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
2. ALL SERVICE EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE PREVAILING LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, 2017 NFPA 70, AUTHORITY HAVING JURISDICTION AND UTILITY COMPANY.
3. CONDUCTORS SHALL BE SPLICED IN ACCORDANCE WITH STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLAN ES-13, COMPRESSION CONNECTOR AND WATERPROOF.



SINGLE LINE DIAGRAM

SCALE: N.T.S. 1

SHEET NOTES

1. COMPLY WITH GOVERNING CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. COORDINATE WITH UTILITY COMPANY FOR SITE SPECIFIC WORK AND MATERIAL REQUIREMENTS PRIOR TO START OF CONSTRUCTION.
3. PROVIDE ALL CONDUIT, PULL ROPES, PULL BOXES, CONCRETE ENCASMENT(IF REQUIRED), BARRIERS, POLE RISERS, TRENCHING, BACKFILL, AS REQUIRED PER SITE SPECIFIC REQUIREMENTS.
4. OBTAIN PERMITS FROM AUTHORITIES HAVING JURISDICTION REQUIRED TO PERFORM THE WORK, PRIOR TO START OF CONSTRUCTION.
5. NOTIFY CONSTRUCTION MANAGER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED.
6. PROVIDE SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY PROVIDER.
7. REVIEW AND INSPECT EXISTING CONDITIONS, GROUNDING SYSTEM AND LIGHTING PROTECTION SYSTEM FOR COMPLIANCE WITH THE AUTHORITY HAVING JURISDICTION. REPORT ANY ADVERSE FINDINGS TO THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING.
8. PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING FOR NEW GROUND ELECTRODE SYSTEMS. PROVIDE SUPPLEMENTAL GROUND ELECTRODES AS REQUIRED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
9. ANTIOXIDANT COATINGS SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
10. ALL WIRING METHODS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC) AND UTILITY COMPANY REQUIREMENTS AND AUTHORITIES HAVING JURISDICTION.
11. ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY SECTIONS USING APPROVED COUPLERS PER CEC REQUIREMENTS.
12. ALL EMPTY CONDUITS SHALL HAVE A 1/4" POLYPROPYLENE PULL ROPE PROVIDED INSIDE AND SEALED WITH A DUCT SEAL ON BOTH ENDS OF THE CONDUIT.
13. THE ENDS OF ALL CONDUITS INSTALLED SHALL BE SEALED WITH A DUCT SEAL.
14. PROVIDE NEW METER AND DISCONNECT PER UTILITY COMPANY REQUIREMENTS.

SYMBOL LEGEND

SYMBOL	NOTES
	FIBER OPTICAL CABLE
	COPPER GROUND WIRE
	BRANCH CIRCUIT UNDERGROUND
	BRANCH CIRCUIT ABOVE GRADE
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT STUBBED OUT
	CIRCUIT BREAKER
	FUSE
	SPLICED WIRES
	FIBER OPTIC SPLICE PANEL
	METER SOCKET PER UTILITY PROVIDER REQUIREMENTS
	GROUND ROD
	MECHANICAL GROUND CONNECTION
	EXOTHERMIC WELD

CLIENT



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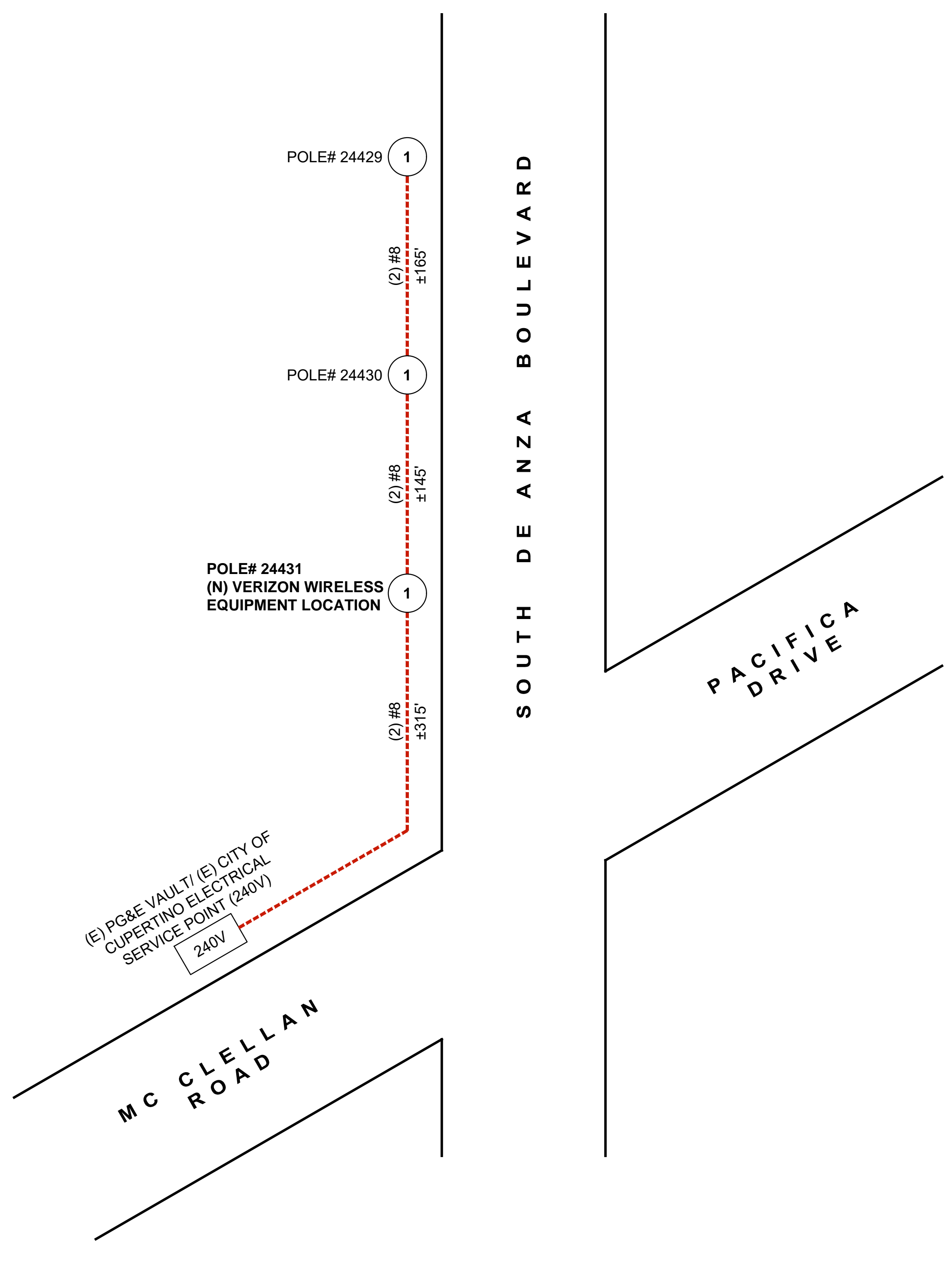
**SINGLE LINE DIAGRAM,
EQUIPMENT
GROUNDING DIAGRAM**

SHEET NUMBER

EP-1

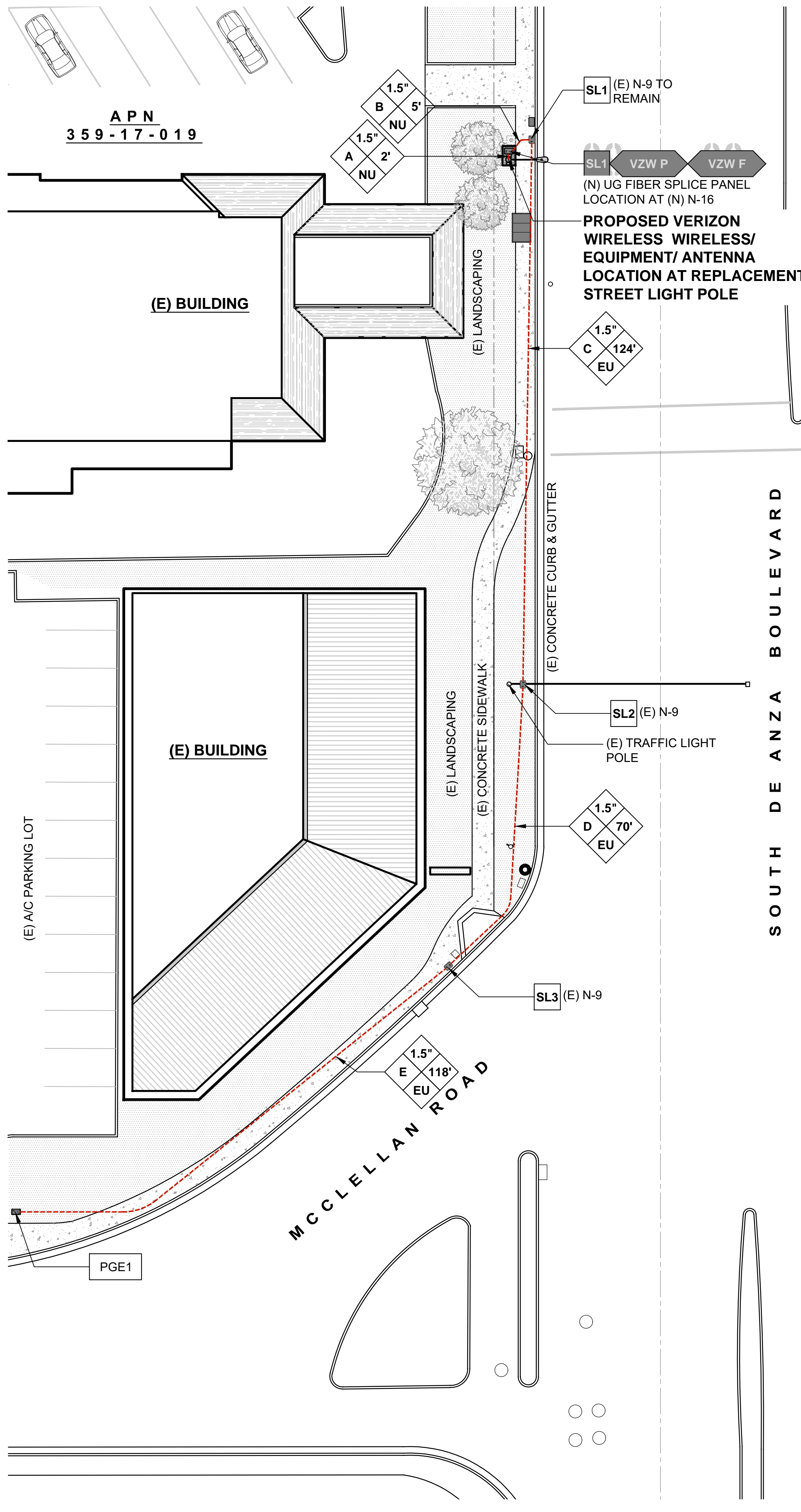
CONDUIT SCHEDULE		
MARK	CONDUIT SIZE	WIRES
SCHEDULE A	(N) 1½" DIA.	(E) CITY: (2) #8 VERIZON: (N) 2X FIBER, (2) #2 GND
SCHEDULE B	(N) 1½" DIA.	(E) CITY: (2) #8
SCHEDULE C	(E) 1½" DIA.	(E) CITY: (2) #8
SCHEDULE D	(E) 1½" DIA.	(E) CITY: (2) #8
SCHEDULE E	(E) 1½" DIA.	(E) CITY: (2) #8

CONDUIT SCHEDULE SCALE: N.T.S. 2



SERVICE POINT LOCATION	CIRCUIT #	BREAKER SIZE	POLE ID	CELLULAR EQUIPMENT WATTAGE	EXISTING LUMINAIRE	AMPERAGE		VOLTAGE DROP	
						EXISTING	PROPOSED	EXISTING	PROPOSED
S DE ANZA BLVD & MC CLELLAN RD	1	N/A	24429		120W 10	1.8	8.3	8.83%	2.83%
			24430		120W 10				
			24431	1500	120W 10				

CIRCUIT DIAGRAM SCALE: N.T.S. 3



UTILITY PLAN SCALE: 1/16"=1'-0" 1

SHEET NOTES

- COMPLY WITH GOVERNING CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS.
- OBTAIN PERMITS FROM AUTHORITIES HAVING JURISDICTION REQUIRED TO PERFORM THE WORK, PRIOR TO START OF CONSTRUCTION.
- NOTIFY CONSTRUCTION MANAGER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED.
- PROVIDE SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY PROVIDER.
- REVIEW AND INSPECT EXISTING CONDITIONS. GROUNDING SYSTEM AND LIGHTING PROTECTION SYSTEM FOR COMPLIANCE WITH THE AUTHORITY HAVING JURISDICTION. REPORT ANY ADVERSE FINDINGS TO THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING.
- EXISTING UNDERGROUND WIRING, CONDUIT AND FUSE INFORMATION SHOWN IS BASED ON CLIENT PROVIDED INFORMATION AND BEST PRESENT KNOWLEDGE OF EXISTING CONDITIONS. WHERE CONDITIONS ARE UNCOVERED DURING CONSTRUCTION THAT DIFFER FROM WHAT IS SHOWN OR THAT REQUIRE MODIFICATION OF DETAILING SHOWN, SUCH DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- ALL WIRING METHODS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC), NFPA 70 AND APPLICABLE SECTIONS OF THE CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS STANDARDS.
- A CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT CONNECTION ORDER IS REQUIRED TO ENERGIZE ANY ELECTROLIER OR EQUIPMENT (PROVIDED BY THE CITY OF CUPERTINO AFTER COMPLETION AND INSPECTION FOR SUBMITTAL TO PACIFIC GAS AND ELECTRIC).
- CONTACT PACIFIC GAS AND ELECTRIC FOR ADDITIONAL REQUIREMENTS AND CONTACT THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT FOR INSPECTIONS OF FOUNDATIONS FORTY EIGHT HOURS PRIOR TO FOUNDATION POURING AND ELECTRICAL INSPECTIONS.
- THE CONTRACTOR SHALL SUPPLY TO THE CITY OF CUPERTINO FOR APPROVAL, MANUFACTURER'S SUBMITTALS FOR ALL NEW LUMINAIRES.
- ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL OVERLOAD PROTECTION (FUSES) SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- WHENEVER AN INSTALLATION IS NEAR ANY OVERHEAD WIRES/ CONDUCTORS, A CLEARANCE MUST BE OBTAINED FROM PACIFIC GAS AND ELECTRIC PRIOR TO INSTALLATION.

SHEET LEGEND

SYMBOL	NOTES
	CONDUIT DIAMETER CONDUIT APPROXIMATE LENGTH IN LINEAR FEET CONDUIT SCHEDULE MARK EXISTING, NEW, UNDERGROUND, SURFACE MOUNTED (E-EXISTING, N-NEW, U-UNDERGROUND, S-SURFACE MOUNTED)
	EXISTING N-9 BOX (STREET LIGHT VAULT)/ NUMBER
	NEW N-16 BOX (STREET LIGHT VAULT)/ NUMBER/ NEW VERIZON WIRELESS FIBER SPLICE PANEL LOCATION
	EXISTING PG&E VAULT/ EXISTING CITY OF CUPERTINO POWER POINT OF CONNECTION
	EXISTING OR NEW CONDUIT ROUTE
	VERIZON WIRELESS POWER POINT OF CONNECTION
	VERIZON WIRELESS FIBER DEMARC/ SPLICE PANEL / POINT OF CONNECTION

411 DONDÉE WAY, UNIT C
PACIFICA CA 94044
415.608.3670 PHONE | 415.963.4471 FAX
INFO@JVARCHITECT.COM
WWW.JVARCHITECT.COM

CLIENT



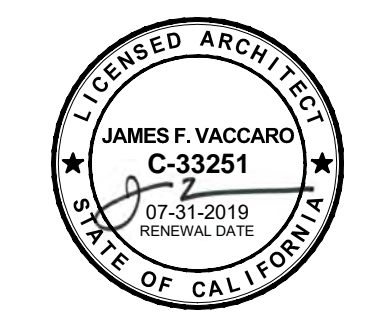
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240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

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PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
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TO 359-17-019

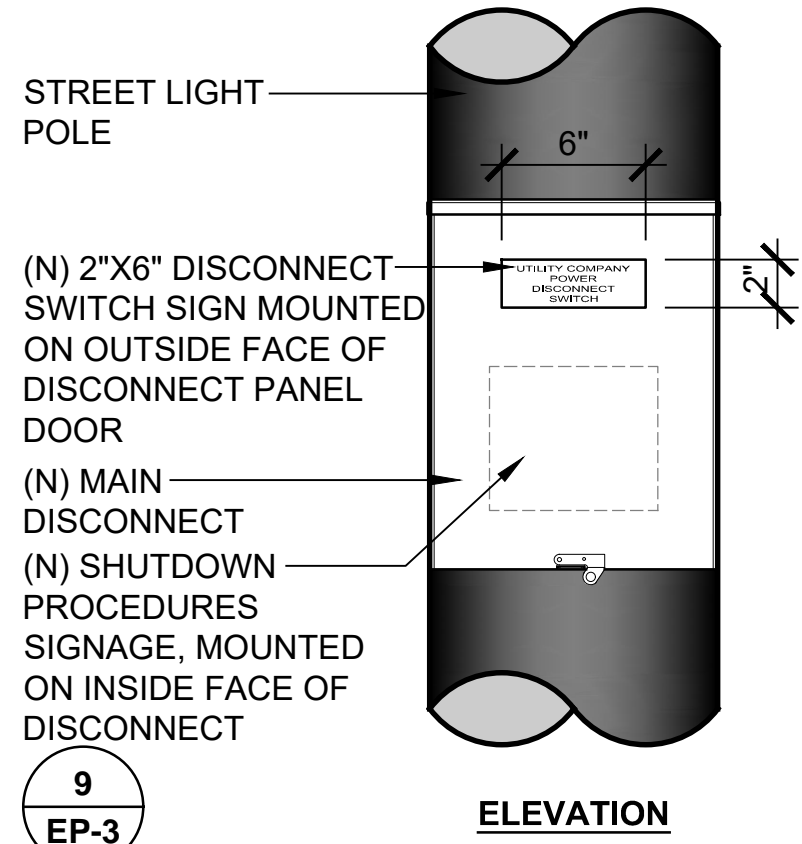


REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

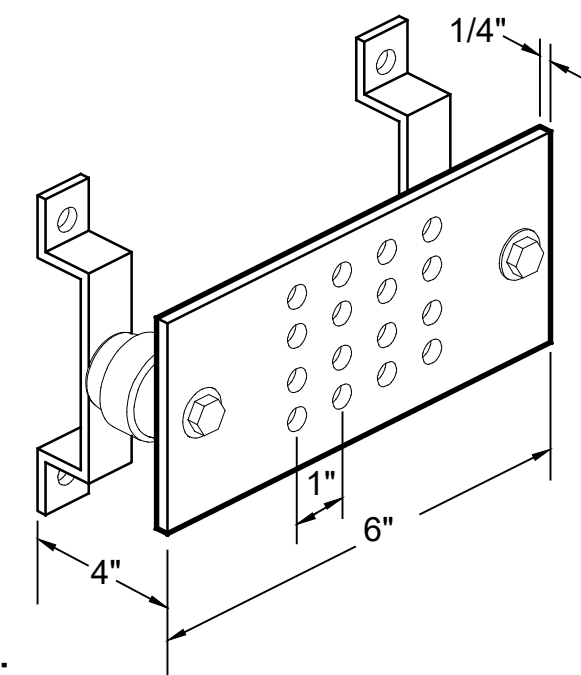
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SHEET TITLE
**UTILITY PLAN,
CONDUIT SCHEDULE,
CIRCUIT DIAGRAM**
SHEET NUMBER

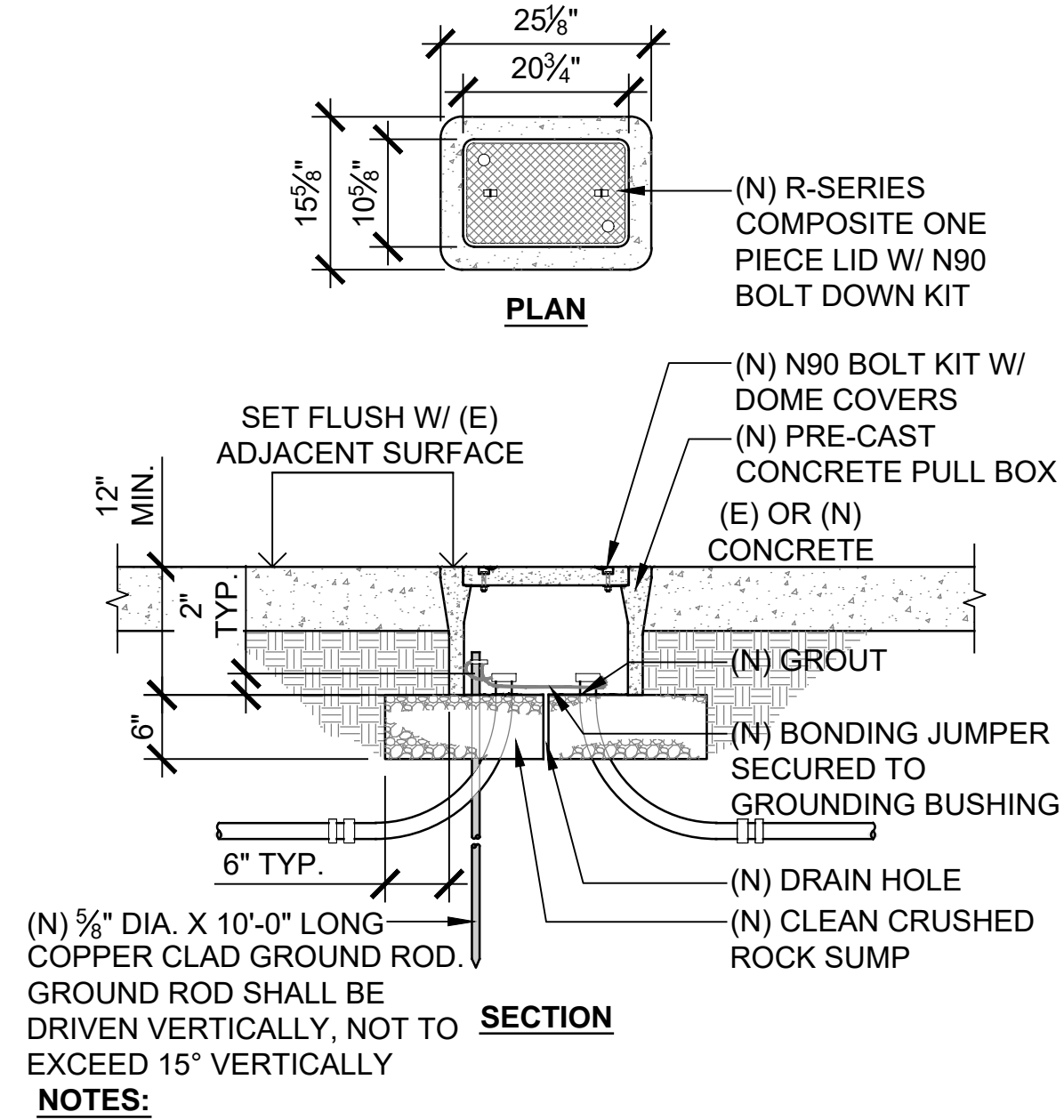
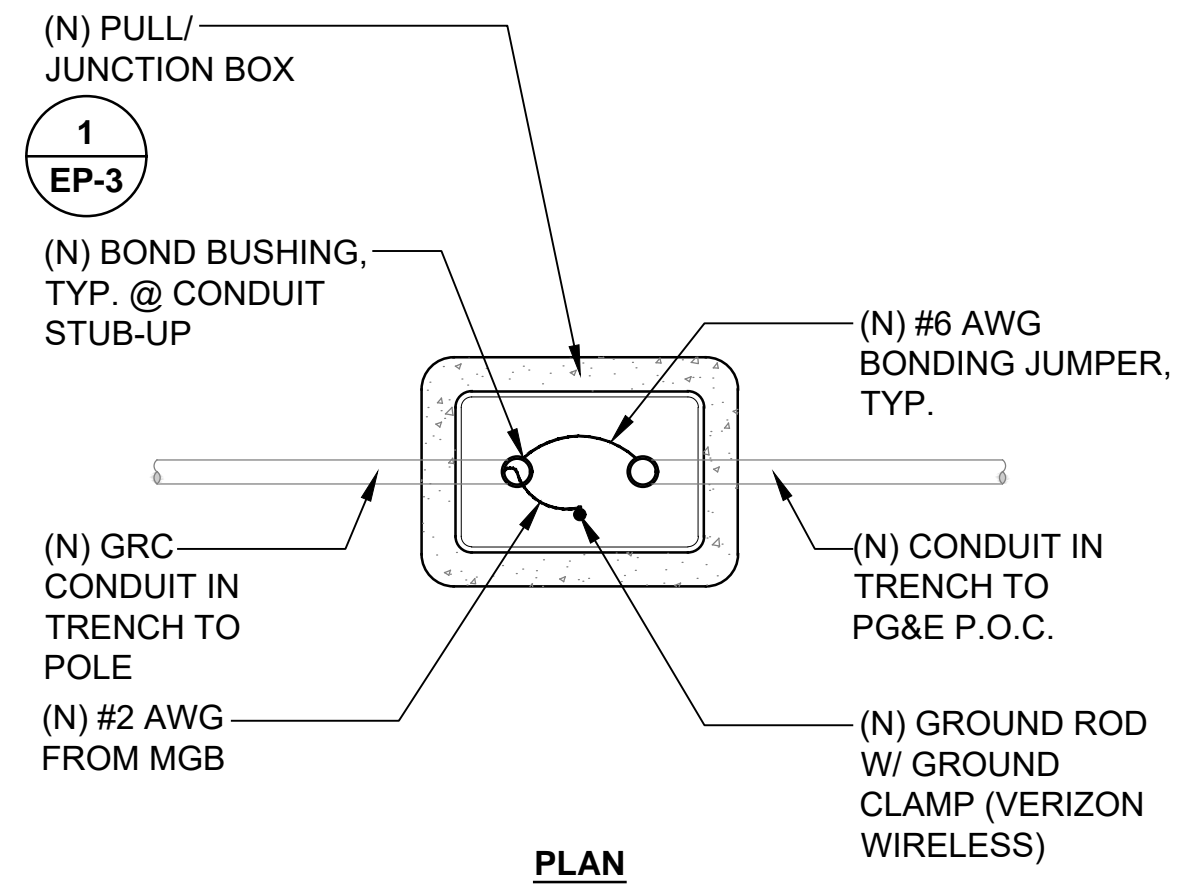
EP-2



- NOTES:**
- DISCONNECT SWITCH SIGN SHALL READ "UTILITY COMPANY POWER DISCONNECT SWITCH" IN 1/4" HEIGHT TEXT, WITH WHITE BACKGROUND AND BLACK LETTERING.
 - SIGN SHALL BE OUTDOOR RATED WITH UV PROTECTION.
 - SEE SPECIFICATIONS SECTION 26 05 00 FOR COMMON WORK RESULTS FOR ELECTRICAL.



- NOTES:**
- 1/4"X4"X6" COPPER GROUND BAR, TYP. OF SITE PRO 1 #MG40616 WITH INSULATORS AND BRACKETS AS REQUIRED OR APPROVED EQUAL.
 - PROVIDE TAMPER RESISTANT GROUND BAR MOUNTING HARDWARE.
 - APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.



- PULL/JUNCTION BOX SHALL BE "CHRISTY" N16, WITH ONE PIECE COMPOSITE LID AND N90 SS BOLT KIT AS MANUFACTURED BY OLDCASTLE ENCLOSURE SOLUTIONS (800-486-7070).
- LID SHALL BE MARKED "STREET LIGHTING".
- TOP OF VAULT SHALL BE SET FLUSH WITH SURROUNDING ADJACENT SURFACE.
- VERIFY LOCATIONS OF ALL EXISTING UTILITIES BELOW GRADE VIA UNDERGROUND SERVICE LOCATOR PRIOR TO ANY EXCAVATION.
- UTILITY VAULT SHALL NOT BE INSTALLED WITHIN THE BOUNDARIES OF NEW OR EXISTING CURB RAMPS.
- PATCH/REPAIR ADJACENT SURFACES TO CONDITION EXISTING PRIOR TO WORK.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) 301.

SHUT-DOWN SIGNAGE

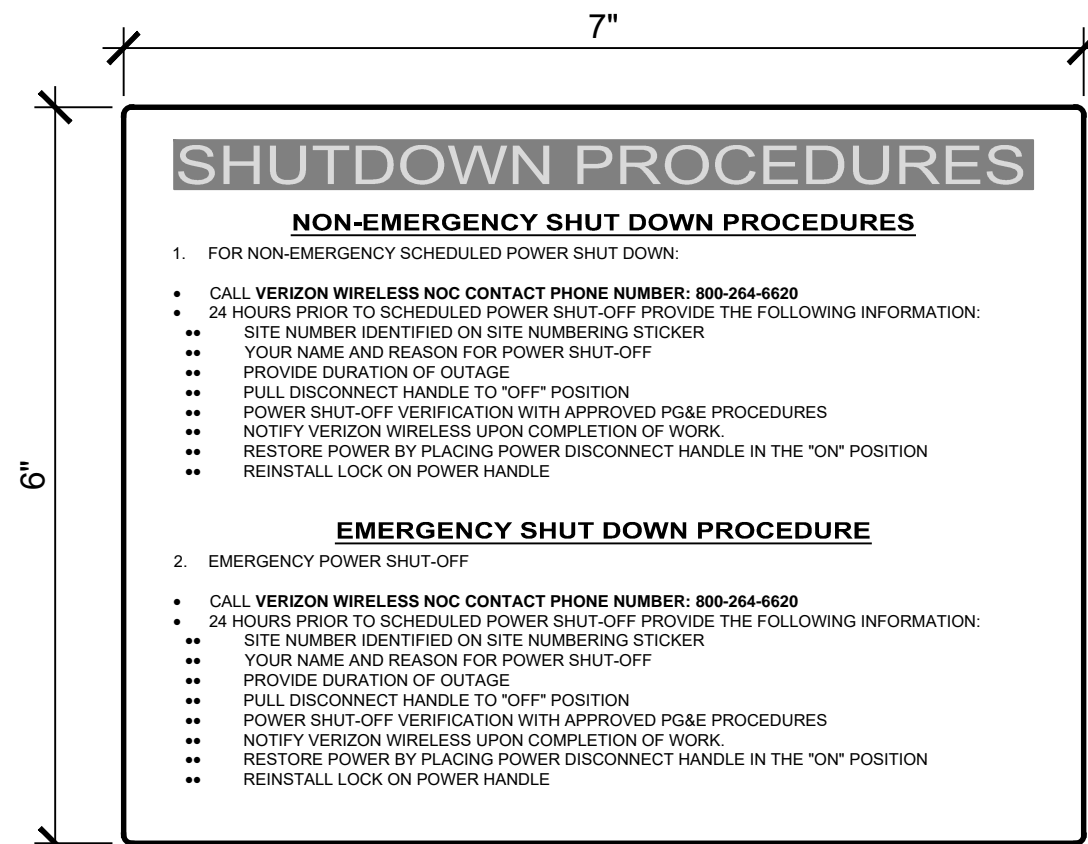
SCALE: N.T.S. 8

GROUND BAR

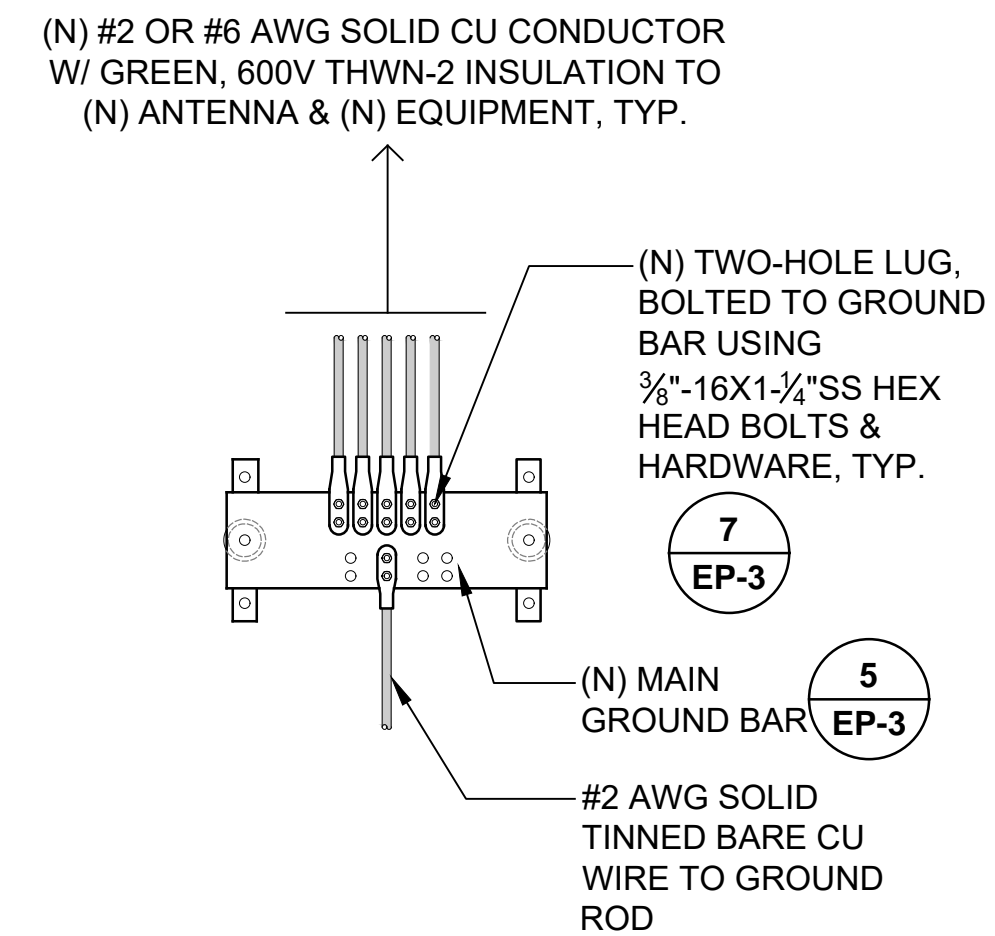
SCALE: N.T.S. 5

GROUNDING AT PULL BOX

SCALE: N.T.S. 3



- NOTES:**
- SIGN SHALL BE MOUNTED ON INSIDE FACE OF POWER MAIN DISCONNECT SWITCH IN 3/4" HEIGHT TEXT, WITH WHITE BACKGROUND AND BLACK LETTERING.
 - SIGN SHALL BE OUTDOOR RATED.
 - SEE SPECIFICATIONS SECTION 26 05 00 FOR COMMON WORK RESULTS FOR ELECTRICAL.



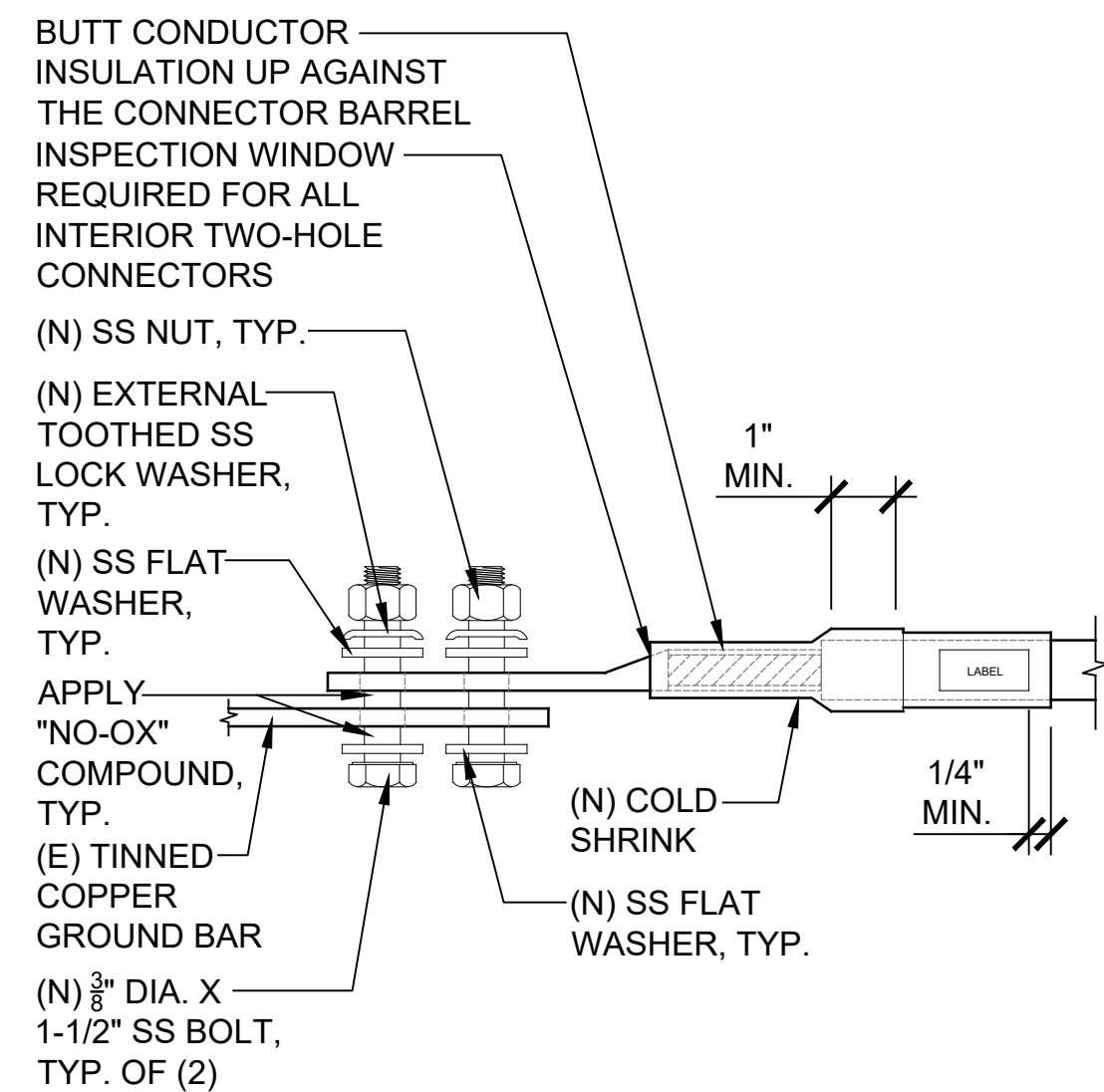
- NOTES:**
- APPLY "NO-OX" OXIDE INHIBITOR AGENT TO LUG AND BAR CONTACT SURFACE.

SHUT-DOWN SIGNAGE

SCALE: N.T.S. 9

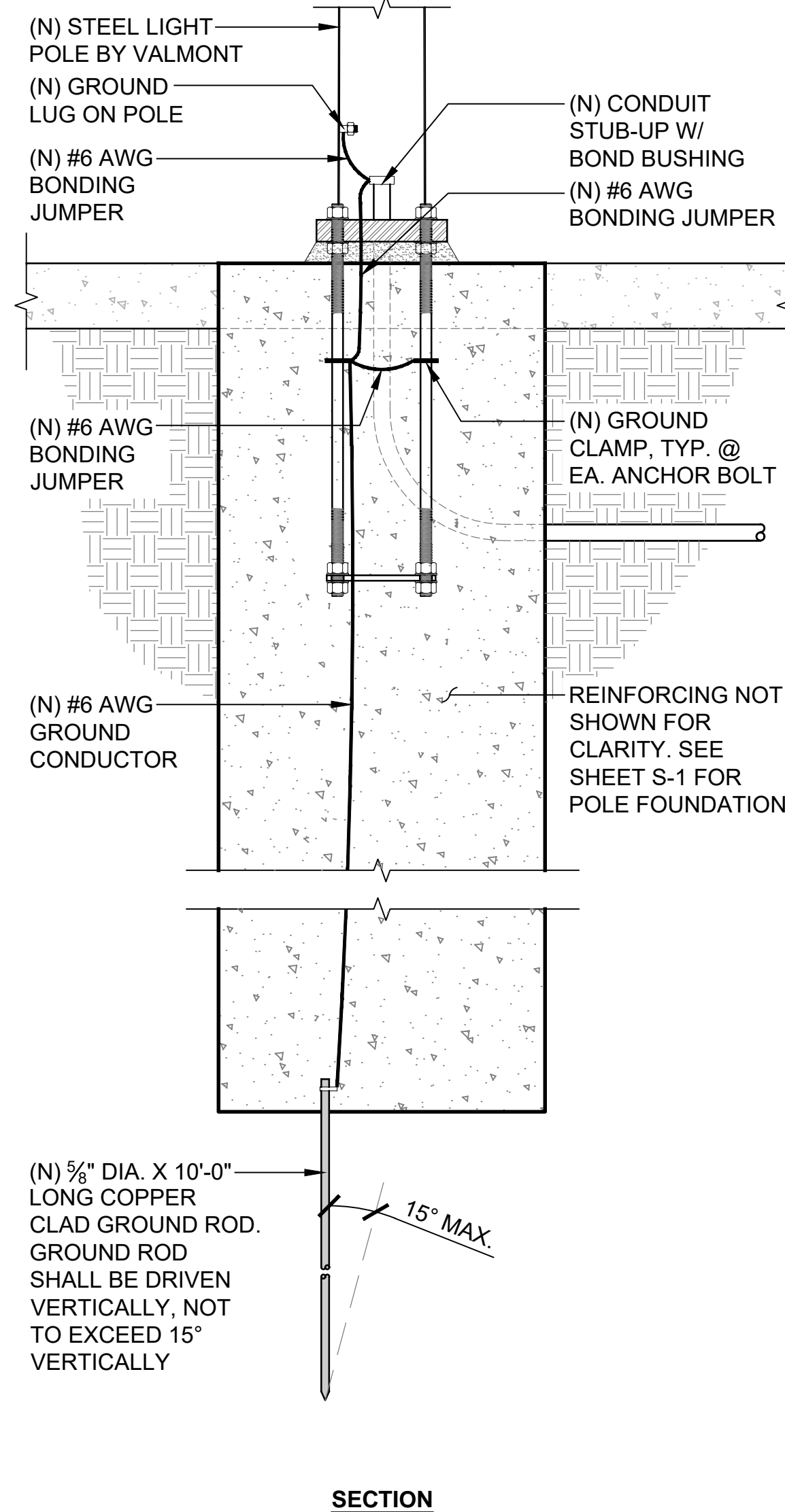
GROUND CONNECTION

SCALE: N.T.S. 6



TWO-HOLE GROUND LUG

SCALE: N.T.S. 7



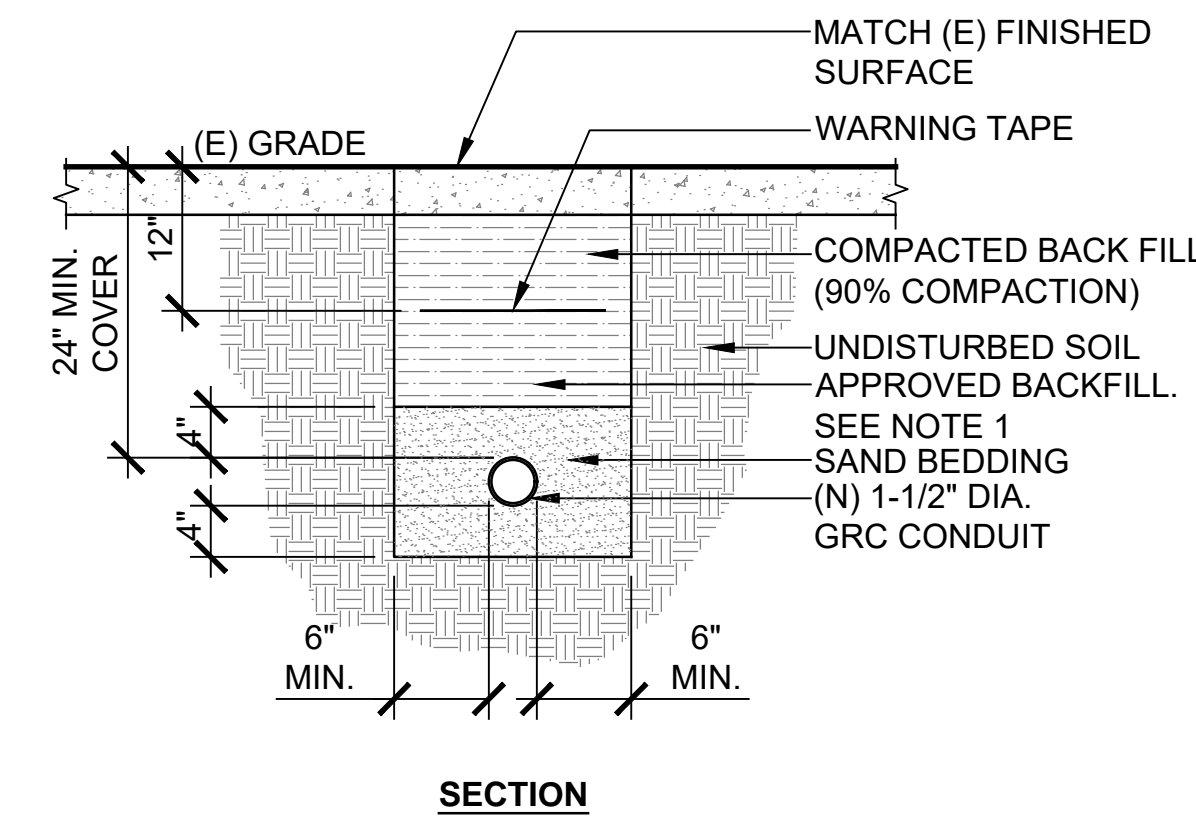
- (N) 3/8" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 15° VERTICALLY

GROUNDING AT POLE

SCALE: N.T.S. 4

JUNCTION/ PULL BOX

SCALE: N.T.S. 1



- NOTES:**
- TRENCH BACKFILL: CLASS II OR CLASS III AGGREGATE BASE AT 90% COMPACTION. NATIVE MATERIALS MAY BE USED AS BACKFILL WITH WRITTEN CONSENT OF A/E. NATIVE BACKFILL COMPACTION SHALL BE 90%. CONTRACTOR SHALL VERIFY SUITABILITY OF NATIVE BACKFILL PRIOR TO START OF CONSTRUCTION.
 - VERIFY LOCATIONS OF ALL EXISTING UTILITIES BELOW GRADE VIA UNDERGROUND SERVICE LOCATOR PRIOR TO ANY EXCAVATION.
 - ADJUST LOCATION OF TRENCH AS REQUIRED PER RESULTS OF UNDERGROUND SERVICE LOCATOR RESULTS TO AVOID CONFLICT WITH EXISTING UTILITIES.
 - PATCH/REPAIR ADJACENT SURFACES TO CONDITION EXISTING PRIOR TO WORK.
 - ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) 301.

UTILITY TRENCH

SCALE: N.T.S. 2

CLIENT



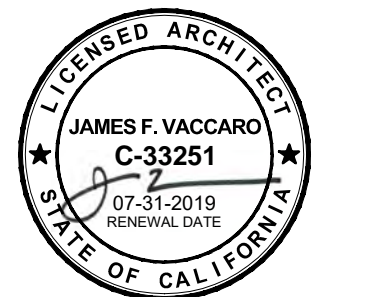
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SAN FRANCISCO, CA 94108



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WALNUT CREEK, CA 94598

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TO 359-17-019



REV	DATE	ISSUE
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2	2/6/2018	100% CONSTRUCTION
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SHEET TITLE

DETAILS




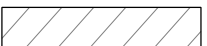

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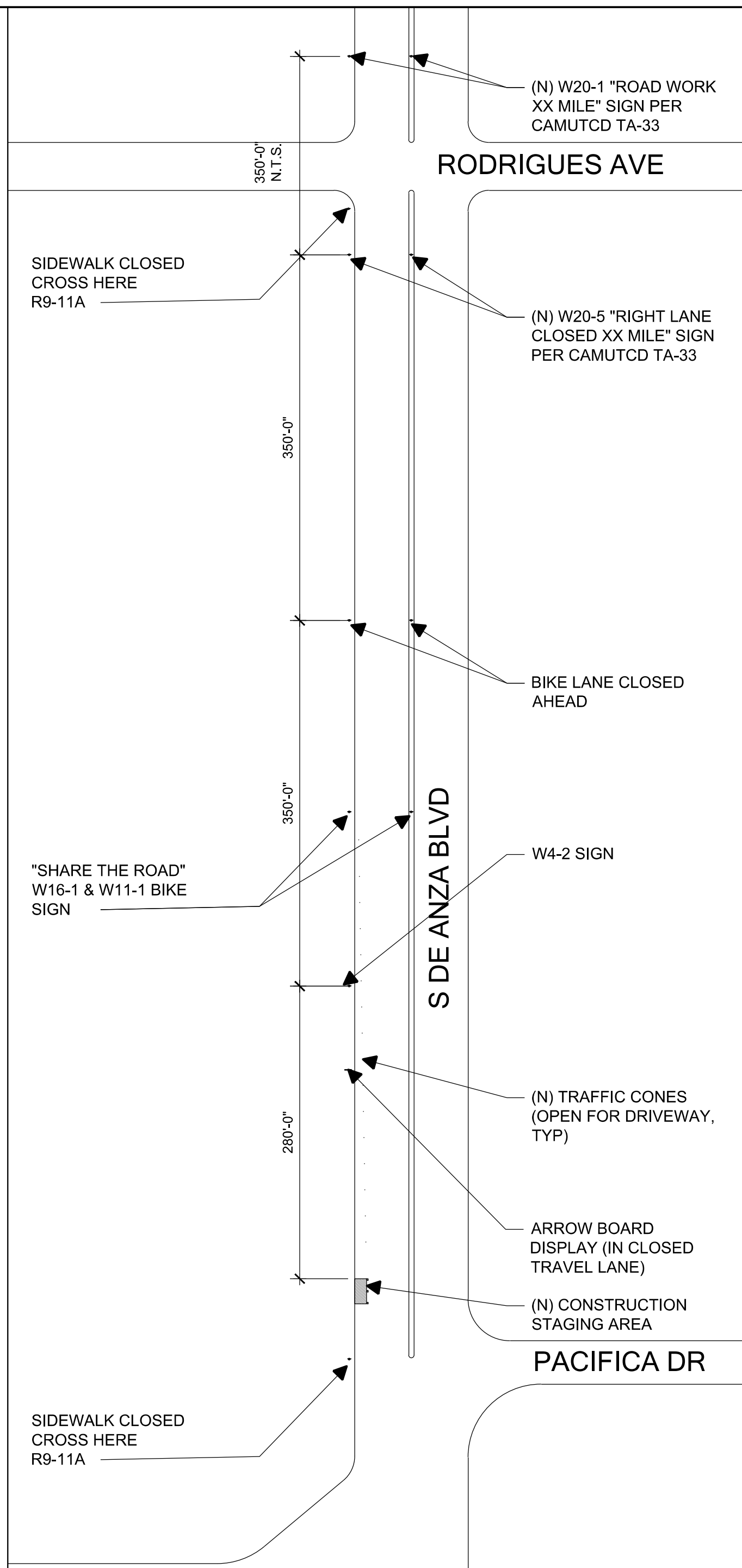
EP-3

TRAFFIC CONTROL NOTES

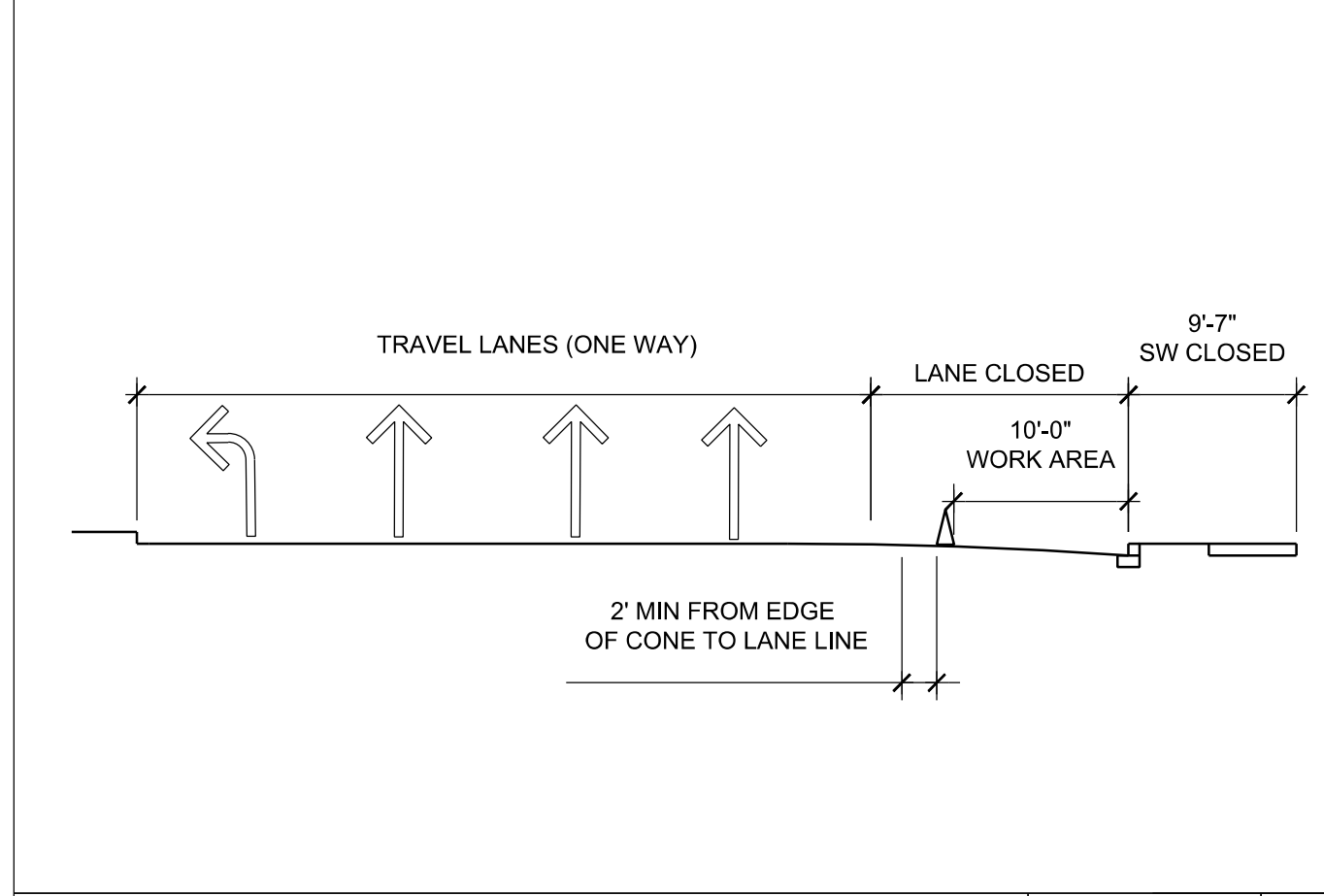
- ALL DELINEATORS SHALL BE EQUIPPED WITH REFLECTORS AT NIGHT TIME.
- ALL TRAFFIC CONTROL DEVICES, STRIPES, MARKINGS, LEGENDS AND RAISED PAVEMENT MARKERS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING: A) CA MUTCD, B) STATE OF CALIFORNIA STANDARD SPECIFICATIONS, C) SPECIAL PROVISIONS, AND D) STANDARD PLANS.
- THE CONTRACTOR PERFORMING THE WORK ON A PUBLIC STREET SHALL ASSUME RESPONSIBILITY AS FOLLOWS: A) INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, B) ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA, AND C) PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
- THE CITY OR COUNTY OF RECORD AS WELL AS CALTRANS RESERVE THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE. THEY HAVE THE AUTHORITY TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. THE EXACT LOCATION OF ALL EQUIPMENT AND TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
- ALL SIGNS, DELINEATORS, BARRICADES, ETC. AND THEIR INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE: A) CA. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, B) THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, C) SPECIAL PROVISIONS, AND D) STANDARD PLANS.
- IN ORDER TO PRESERVE THEIR APPEARANCE AND CONTINUITY, ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY, AND AS DIRECTED BY THE ENGINEER.
- ALL TRAFFIC LANES SHALL HAVE A MINIMUM OF 5 FEET CLEARANCE FROM OPEN EXCAVATIONS AND MINIMUM OF 2 FEET FROM VERTICAL OBSTRUCTIONS.
- THE CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE ENGINEER, COUNTY INSPECTOR, OR CALTRANS PERMIT INSPECTOR.
- ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH FLAGS.
- NOT USED.
- PLACE ADDITIONAL SIGNS AS FOLLOWS: A) "LANE CLOSED", (C30) ON THE TYPE II BARRICADES AT 100 FOOT INTERVALS THROUGHOUT EXTENDED WORK AREAS IN EACH LANE THAT IS CLOSED AND B) "OPEN TRENCH" (C27) WHENEVER AN OPEN EXCAVATION AREA EXISTS ADJACENT TO THE TRAVELED WAY.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON COMPLETION OF WORK.
- THE CONTRACTOR SHALL REPLACE AND/OR REPAIR ALL DAMAGED STRIPING AT THE END OF EACH WORKING DAY.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT AS RELATED TO PEDESTRIAN ACCESS AND SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES PER ADA REQUIREMENTS. ANY SIDEWALK CLOSURE AND/OR DETOUR SHALL COMPLY WITH THE WATCH STANDARDS AND MUST OBTAIN APPROVAL FROM THE CITY OR COUNTY OF RECORD.
- THE CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.
- THE CONTRACTOR SHALL POST "SYMBOLS" UNEVEN LANES, "STEEL PLATES AHEAD" OR "BUMP" SIGNS FOR PAVEMENT SURFACE DISRUPTIONS OF 1/2" OR GREATER. PAVEMENT DISRUPTIONS FOR 1" OR GREATER SHALL HAVE A BEVELED EDGE OF FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
- BEFORE PLATE BRIDGING, THE CONTRACTOR SHALL INSTALL "CAUTION STEEL PLATES AHEAD" AND/OR "ROUGH ROAD SIGNS.
- THE RESIDENTS AND BUSINESSES SHALL BE NOTIFIED OF THE DATES & TIMES OF CONSTRUCTION TWO (2) WEEKS PRIOR TO THE WORK START DATE.

TRAFFIC SYMBOL LEGEND

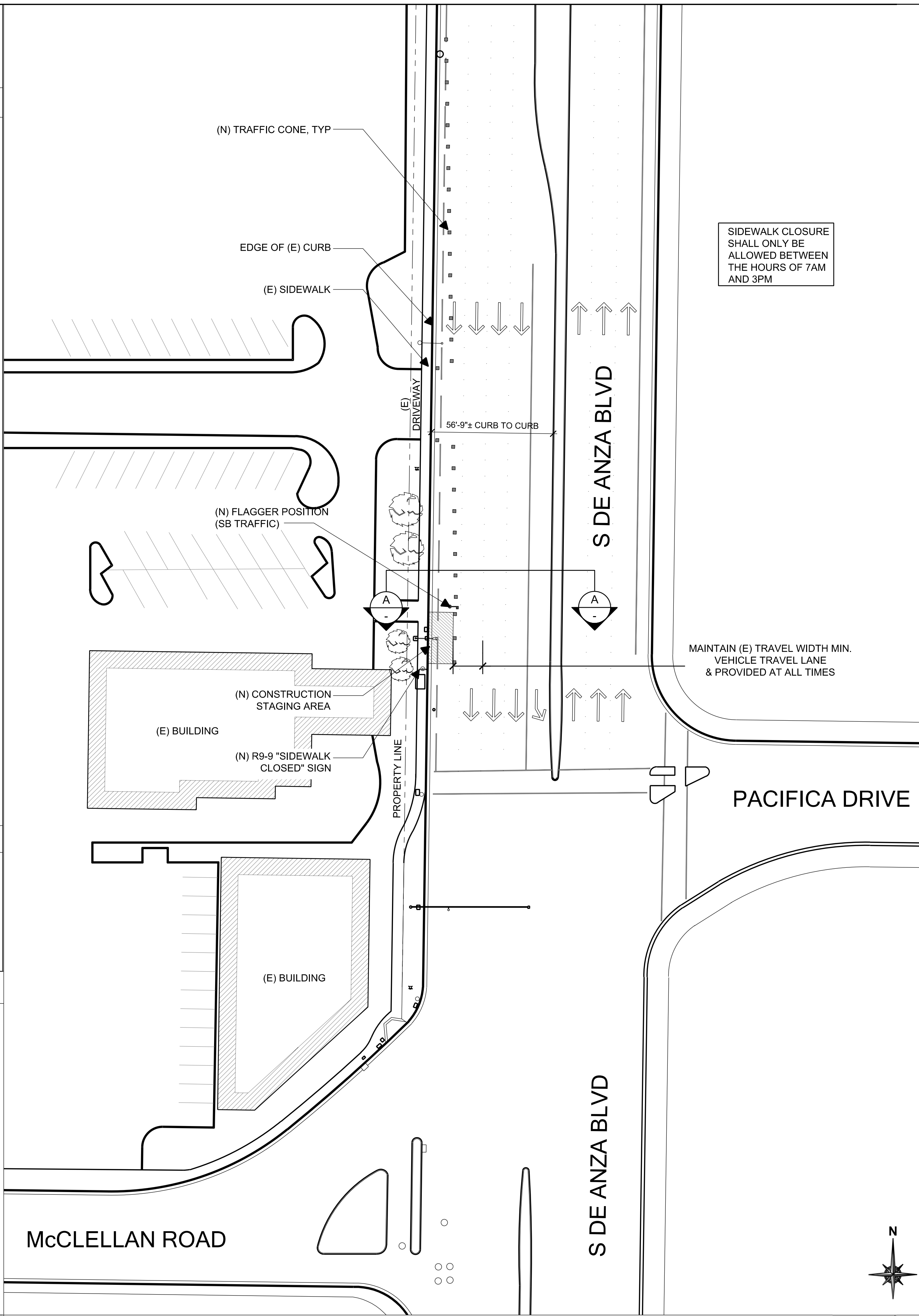
-  TRAFFIC CONE (SPACING 20' O.C.)
-  TRAFFIC SIGN
-  LANE DIRECTION
-  STAGING AREA
-  FLAGGER



OVERALL SITE PLAN SCALE 1"=100'-0" 3



SECTION A-A SCALE 3/32"=1'-0" 2



TRAFFIC CONTROL PLAN 24"x36" SCALE: 1" = 30'-0" 11"x17" SCALE: 1" = 60'-0" 30' 15' 0' 30' 1



2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
SAN FRANCISCO, CA 94108



2930 DOMINGO AVE, SUITE 150
BERKELEY, CA 94705

DRAWN BY: SH
CHECKED BY: JB

REV	DATE	DESCRIPTION
0	01/18/19	90% CD
1	03/20/18	100% CD



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10465 S. DE ANZA BLVD
CUPERTINO, CA 95014

TRAFFIC CONTROL PLAN

TC-1



R1-2 (B/W)
(48"X30")



R3-1
(24"X24")



R3-2
(24"X24")



R5-1
(30"X30")



W20-3 (B/O)
(XXX FT/AHEAD)
(36"X36")



W20-1 (B/O)
(XXX FT/AHEAD)
(36"X36")



W20-5 (B/O)
(XXX FT/AHEAD)
(36"X36")

W1-3 (B/O)
(RIGHT/LEFT)
(30"X30")



W1-4 (B/O)
(RIGHT/LEFT)
(30"X30")



W11-1



W4-7 (B/O)
(RIGHT/LEFT)
(36"X36")



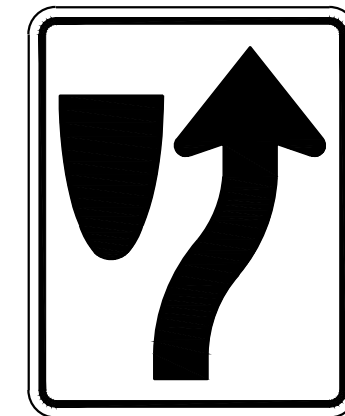
W4-2 (B/O)
(RIGHT/LEFT)
(36"X36")



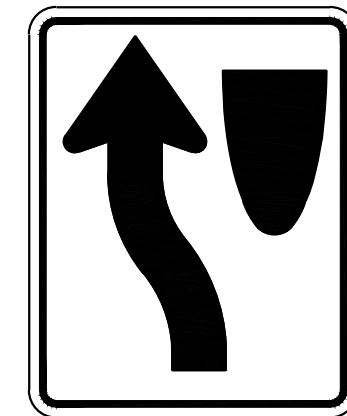
C9A (CA) (B/O)
(36"X36")



W3-4 (B/O)
(36"X36")



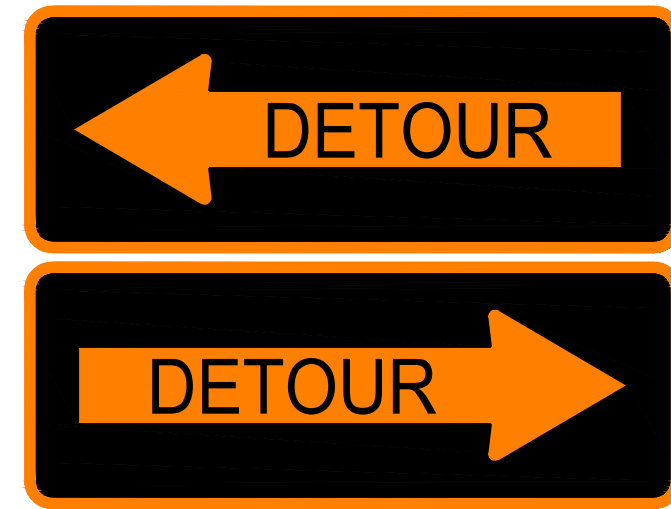
R4-7 (B/W)
(24"X30")



R4-8 (B/W)
(24"X30")



W16-1



M4-10 (B/O)
(RIGHT/LEFT)
(48"X18")



M4-9 (B/O)
(RIGHT/LEFT)
(30"X24")



SC3 (CA) (B/O)
(36"X12")



M4-8a (B/O)
(24"X18")



R3-7bP
(24"X12")



W21-7
(18"X12")



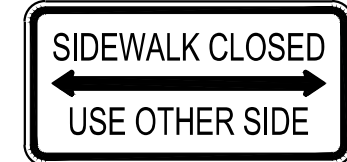
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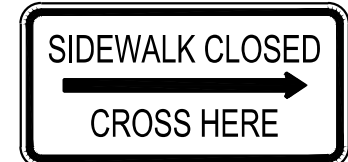
W21-1



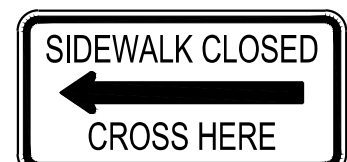
R9-9 (B/W)
(24"X12")



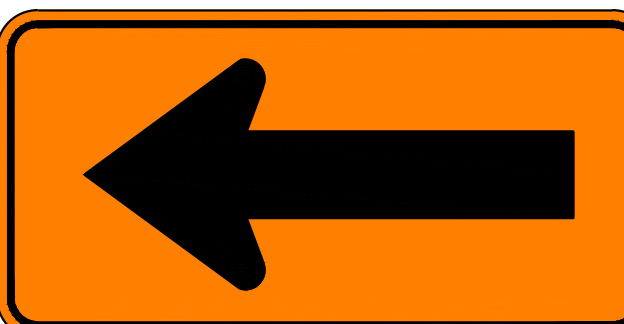
R9-10 (B/W)
(24"X12")



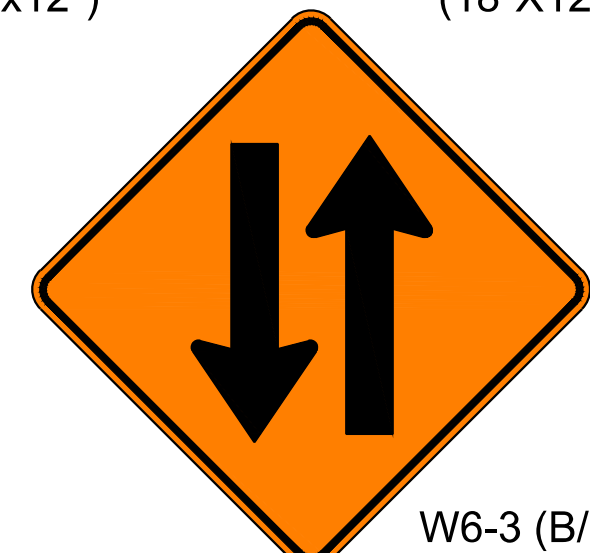
R9-11 (B/W)
(24"X12")



R9-11a (B/W)
(24"X12")



W1-6 (B/O)
(48"X24")



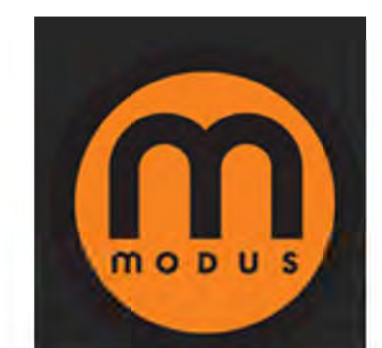
W6-3 (B/O)
(30"X30")



G20-2 (B/O)
(36"X18")

verizon

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



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SAN FRANCISCO, CA 94108



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A LICENSED PROFESSIONAL ENGINEER, TO ALTER
THIS DOCUMENT

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10465 S. DE ANZA BLVD
CUPERTINO, CA 95014

TRAFFIC CONTROL SIGNS

TC-2

view from S De Anza Blvd looking north at site



SF Cuper001
10465 S De Anza Blvd, Cupertino, CA
Photosims Produced on 4-2-2018

Existing



Proposed



Existing



Proposed



view from S De Anza Blvd looking south at site

Radio Frequency - Electromagnetic Energy (RF-EME) Jurisdictional Report

Site No. CPSC001
SF_CUPER001
10465 S. De Anza Boulevard
Cupertino, California 95014
Santa Clara County
37° 18' 58.99" N, -122° 1' 57.00" W NAD83

EBI Project No. 6218000319
January 23, 2018



Prepared for:
Verizon Wireless
c/o Modus, LLC
240 Stockton Street
San Francisco, CA 94108

Prepared by:



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EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	2
2.0 SITE DESCRIPTION	2
3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS	3
4.0 WORST-CASE PREDICTIVE MODELING	5
5.0 MITIGATION/SITE CONTROL OPTIONS	7
6.0 SUMMARY AND CONCLUSIONS	7
7.0 LIMITATIONS	7

APPENDICES

- APPENDIX A CERTIFICATIONS**
- APPENDIX B RADIO FREQUENCY ELECTROMAGNETIC ENERGY SAFETY / SIGNAGE PLANS**
- APPENDIX C ROOFVIEW® EXPORT FILES**

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Verizon Wireless to conduct radio frequency electromagnetic (RF-EME) modeling for Verizon Site CPSC001 located at 10465 S. De Anza Boulevard in Cupertino, California to determine RF-EME exposure levels from proposed Verizon wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Additionally, there are areas where workers who may be elevated above the ground may be exposed to power densities greater than the occupational limits. Therefore, workers should be informed about the presence and locations of antennas and their associated fields.

At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately **51.50** percent of the FCC's general public limit (**10.30** percent of the FCC's occupational limit).

The composite exposure level from all carriers on this site is approximately **51.50** percent of the FCC's general public limit (**10.30** percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes instructions to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

1.0 INTRODUCTION

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per seconds (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 1900-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed a distance above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

2.0 SITE DESCRIPTION

This project site includes one (1) wireless telecommunication antenna (at three sector locations) on a light pole located at 10465 S. De Anza Boulevard in Cupertino, California.

Verizon Antenna Information (proposed Configuration)									
Antenna # and Model	Frequency (MHz)	# of Transmitters	Transmit Power (Watts)	Azimuth	Gain (dBd)	Feet above Ground (CL)	X	Y	Z (feet)
A1 Amphenol CUUT360X06F56	1900	2	48.7	0°	7.65	34.3	30	30	33.3
	2100	2	53.8						
B1 Amphenol CUUT360X06F56	1900	2	48.7	120°	7.65	34.3	30	30	33.3
	2100	2	53.8						
C1 Amphenol CUUT360X06F56	1900	2	48.7	240°	7.65	34.3	30	30	33.3
	2100	2	53.8						

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general public that may be exposed to antenna fields. While access to this site is considered uncontrolled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent rooftop locations. Additional

information regarding controlled/uncontrolled exposure limits is provided in Section 3.0. Appendix B presents a site safety plan that provides a plan view of the light pole with antenna locations.

3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

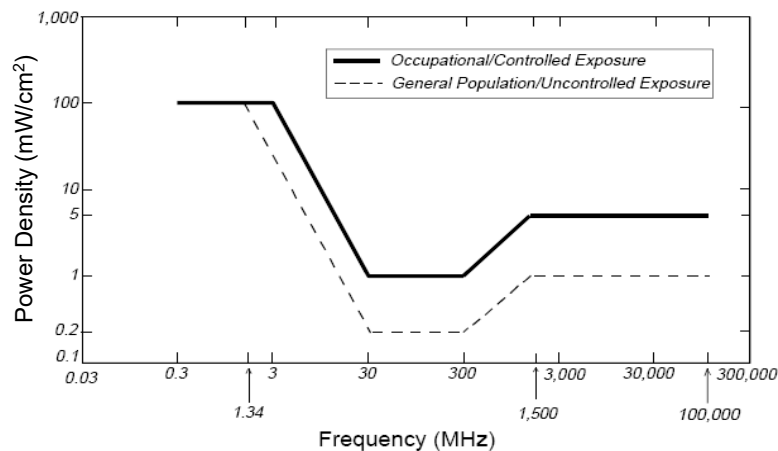
The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Verizon equipment operating at 700 MHz or 850 MHz, the FCC's occupational MPE is 2.83 mW/cm² and an uncontrolled MPE of 0.57 mW/cm². These limits are considered protective of these populations.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
 Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq, Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 1900-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

4.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level and nearby rooftops resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. The modeling assumes a maximum 4-4-4 radio configuration for Sectors A, B and C, with a power level of 46.9 dBm (48.7 watts) per transmitter for the 1900 frequency and 47.3 dBm (53.8 watts) per transmitter for the 2100 frequency, in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by Verizon, and information gathered from other sources. The parameters used for the modeling are summarized in the RoofView® export files presented in Appendix C.

There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed Verizon antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 51.50 percent of the FCC's general public limit (10.30 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 51.50 percent of the FCC's general public limit (10.30 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

The Site Safety Plan also presents areas where Verizon Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix B. It should be noted that RoofView is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage.

5.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are no areas in front of the Verizon antennas that exceed the FCC standards for occupational or general public exposure. All exposures above the FCC's safe limits require that individuals be elevated above the ground. In order to alert people accessing the light pole at ground level, yellow CAUTION signs are recommended for installation 9 feet below the antenna (24 feet above the ground). These signs must be placed in a conspicuous manner so that they are visible to any person approaching the light pole from any direction.

There are no barriers recommended on this site.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the roof should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

Implementation of the signage recommended in the Site Safety Plan and in this report will bring this site into compliance with the FCC's rules and regulations.

6.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Verizon Site Number CPSC001 located at 10465 S. De Anza Boulevard in Cupertino, California to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

7.0 LIMITATIONS

This report was prepared for the use of Verizon Wireless. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.


Appendix A

Certifications

Preparer Certification

I, Jos Schorr, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified “occupational” under the FCC regulations.
- I 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.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.

A rectangular box containing a handwritten signature in black ink. The signature appears to be 'Jos Schorr' with a stylized flourish at the end.

Reviewed and Approved by:



sealed 24jan2018

Michael McGuire
Electrical Engineer





Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the structure, as well as the impact of the antennas and broadcast equipment on the structural integrity of the structure, are specifically excluded from EBI's scope of work.

Appendix B

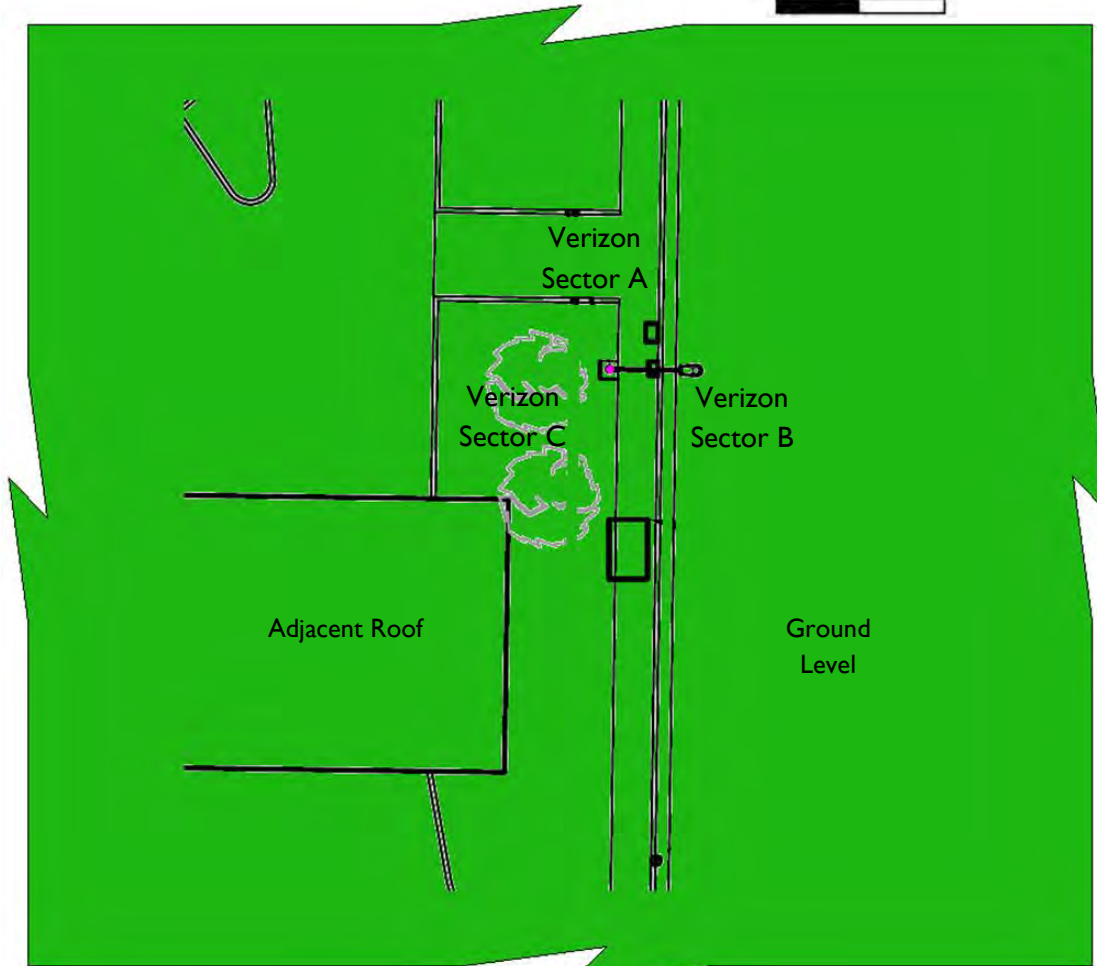
Radio Frequency Electromagnetic Energy

Safety / Signage Plans

% FCC Public Exposure Limit

	Exposure Level $\geq 5,000$
	$500 < \text{Exposure Level} \leq 5,000$
	$100 < \text{Exposure Level} \leq 500$
	Exposure Level ≤ 100

Antenna Face View



 Verizon Antennas



Elevation View

Roofview: Composite Exposure Levels

Facility Operator: Verizon Wireless

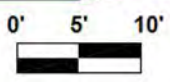
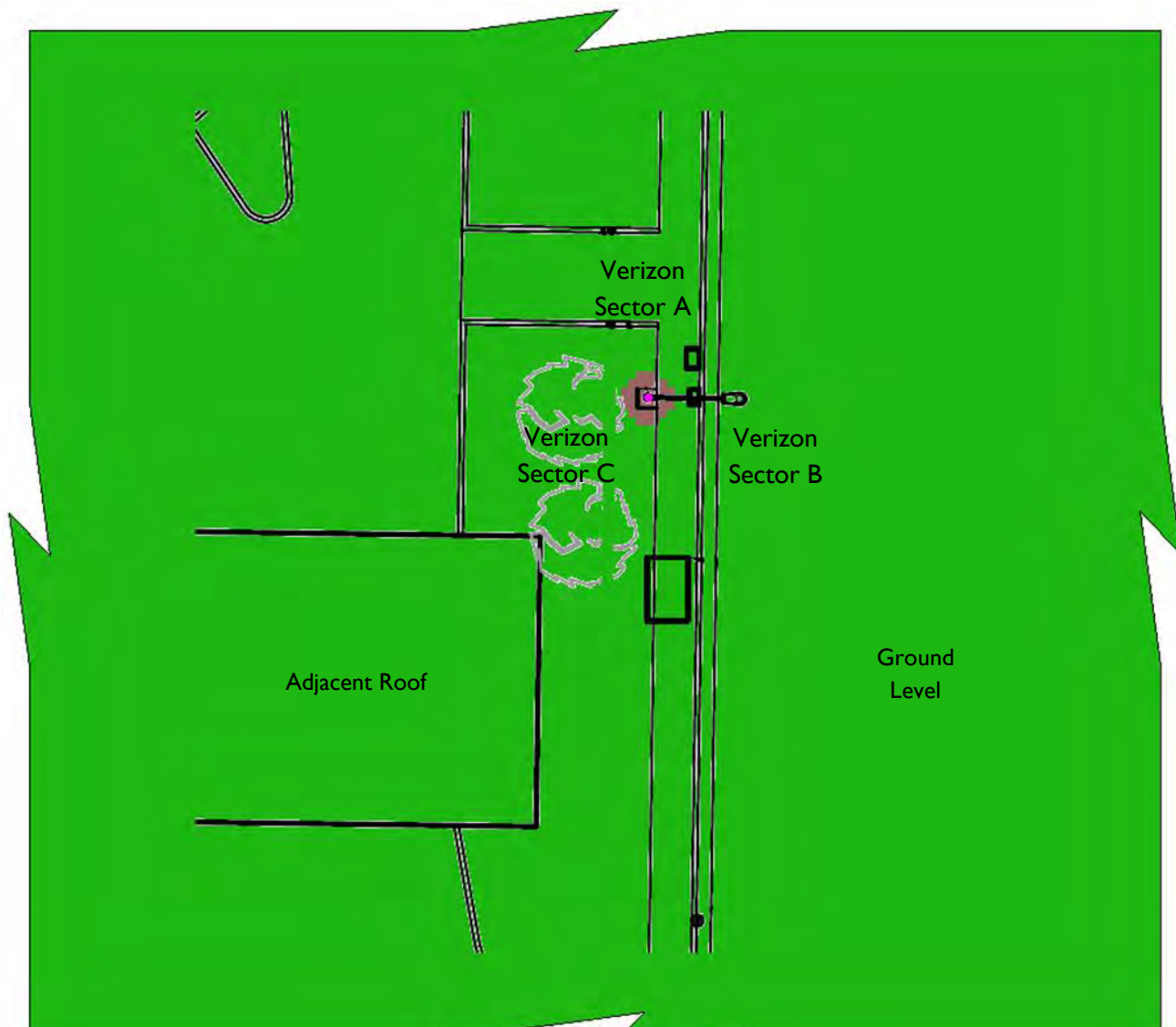
Site Name: SF_CUPER001

Verizon Site Number: CPSC001

Report Date: 01-23-18

% FCC Public Exposure Limit

-  Exposure Level > 5
-  Exposure Level ≤ 5

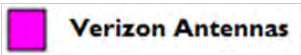
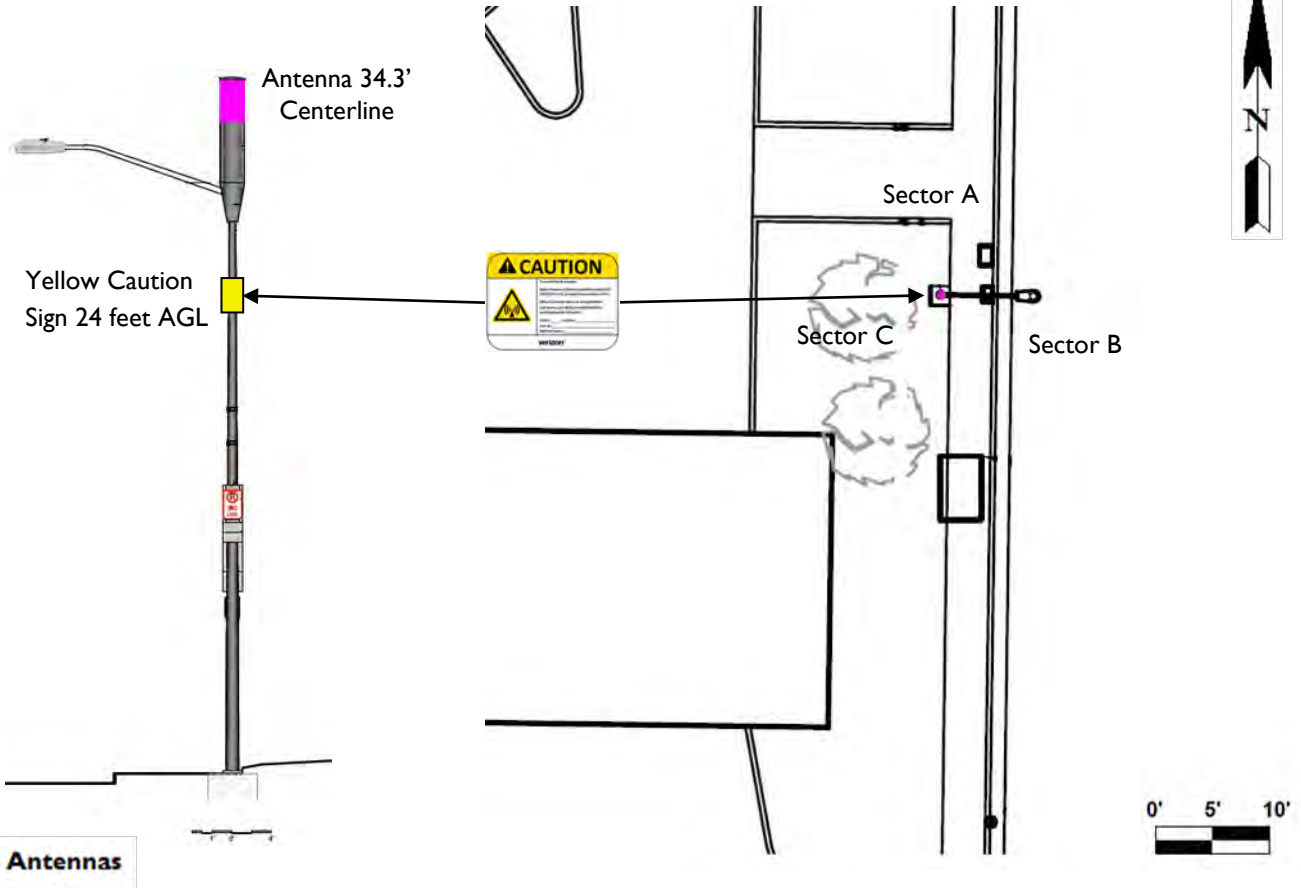







 **Verizon Antennas**

Roofview: Verizon Exposure Levels

Facility Operator: Verizon Wireless
Site Name: SF_CUPER001
Verizon Site Number: CPSC001
Report Date: 01-23-18

Verizon Signage Plan



Sign Image	Description	Posting Instructions	Required Signage
	Notice To Workers Informational sign, used to notify workers that there are active antennas installed and provide guidelines for working in RF environments.	Not required	Not required
	NOC Information Sign Informational sign with NOC Phone Number and Base Transceiver Station (BTS) Number	Not required	Not required
	Blue Notice Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas exceeds the FCC's maximum permissible exposure limit for the general public but is less than the occupational exposure limit.	Not required	Not required
	Yellow Caution Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas may exceed the FCC's maximum permissible exposure limit for the general public and the occupational exposure limit.	Securely post on opposite sides of the light pole in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	2 signs on opposite sides of the pole 9 feet below the antenna (24 feet above ground level)
	Red Warning Sign Used to alert individuals that they are entering an area where the power density emitted from the transmitting is substantially above the FCC's maximum permissible limit for occupational exposure (greater than ten times the Occupational limit).	Not required	Not required

Appendix C

Roofview® Export File

StartMapDefinition

Roof Max Y Roof Max X Map Max Y Map Max X Y Offset X Offset Number of envelope
 60 60 80 90 20 20 1 \$AE\$141:\$AE\$141:\$CL\$200

List Of Area
 \$AE\$141:\$

StartSettingsData

Standard Method Uptime Scale Factor Low Thr Low Color Mid Thr Mid Color Hi Thr Hi Color Over Color Ap Ht Mult Ap Ht Method
 4 2 1 1 100 1 500 4 5000 2 3 1.5 1

StartAntennaData

It is advisable to provide an ID (ant 1) for all antennas

ID	Name	(MHz)	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	(ft) X	(ft) Y	(ft) Z	Type	(ft) Aper	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
VZW A1	LTE	1900	48.677	2					97.354	Amphenol	CUUT360X	30	30	33.25		2	7.65	120;0		ON•
VZW A1	LTE	2100	53.831	2					107.662	Amphenol	CUUT360X	30	30	33.25		2	7.65	120;0		ON•
VZW B1	LTE	1900	48.677	2					97.354	Amphenol	CUUT360X	30	30	33.25		2	7.65	120;120		ON•
VZW B1	LTE	2100	53.831	2					107.662	Amphenol	CUUT360X	30	30	33.25		2	7.65	120;120		ON•
VZW C1	LTE	1900	48.677	2					97.354	Amphenol	CUUT360X	30	30	33.25		2	7.65	120;240		ON•
VZW C1	LTE	2100	53.831	2					107.662	Amphenol	CUUT360X	30	30	33.25		2	7.65	120;240		ON•

StartSymbolData

Sym	Map Mark	Roof X	Roof Y	Map Label	Description (notes for this table only)
Sym			5	35 AC Unit	Sample symbols
Sym			14	5 Roof Access	
Sym			45	5 AC Unit	
Sym			45	20 Ladder	

-P. 1/14

Structural Calculations

Equipment Installation

VERIZON SF_CUPER001 10465 SOUTH DE ANZA BLVD

10465 South De Anza Boulevard
Cupertino, CA 95014

Client: James Vaccaro, AIA
Date: February 2018
Project: 536

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Project Description and Design Criteria	2
Project Data	3
Existing Pole Survey Data	4
Proposed Pole and Appurtenance Configuration Diagram	5
Appurtenance Data and Reuse of Existing Appurtenances	6
New Pole/Mast Arm/Luminaire	7
Valmont Pole Cut Sheet	8
Antenna/Radome/Skirt and RRUS Anchorage	9
Cable Shroud	10
Load Center/Cable Sweep	11
Structural Calculations Spreadsheet	12
New Foundation Design and Details	14



Jeffrey M. Van Dyke, S.E.
1470 Felta Road, Healdsburg, CA 95448
jeffrey@structuralengineeringconsulting.com
(707) 696-3721

PROJECT DESCRIPTION

A new telecommunications antenna is to be placed atop a new tapered steel City of Cupertino Department of Public Works street light pole. An antenna mount connects the antenna, a cylindrical radome shroud, and tapered sheet steel skirt to the top of the pole. Design of these elements and their anchorage are by others. The gravity, wind, and seismic affects of these elements on the pole and foundation are considered herein.

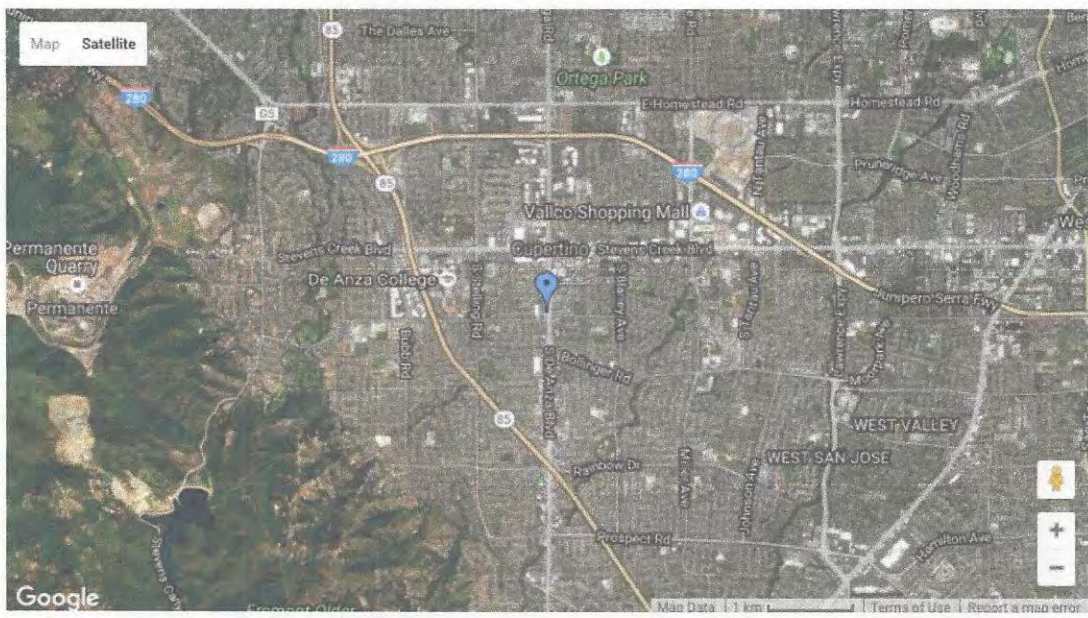
Two new remote radio units are to be anchored to the pole with fabricated steel and strap assemblies. Fabricated sheet steel cable shrouds feed each radio unit, and are also attached to the pole with fabricated steel and strap assemblies. A small power interface cabinet is to be mounted similarly below the RRUS units.

These calculations consider loading on signage and other appurtenances. They address the anchorage of new equipment noted above and specify supports for an existing or future single banner where occurs. Additionally, these calculations verify pole, pole anchorage, and new reinforced concrete pier foundation adequacy.

DESIGN CRITERIA

- TIA-222G "Structural Standards for Antenna Supporting Structures and Antennas"
- 2013 AASHTO LTS-6

VERIZON SF_CUPER001 10465 SOUTH DE ANZA BLVD



PROJECT LOCATION: 10465 South De Anza Blvd, Cupertino, CA 95014
LATITUDE= 37.316385
LONGITUDE= -122.032501
WIND EXPOSURE: B
SITE CLASS: D

$S_S = 1.945g$

$S_{MS} = 1.945g$

$S_{DS} = 1.296g$

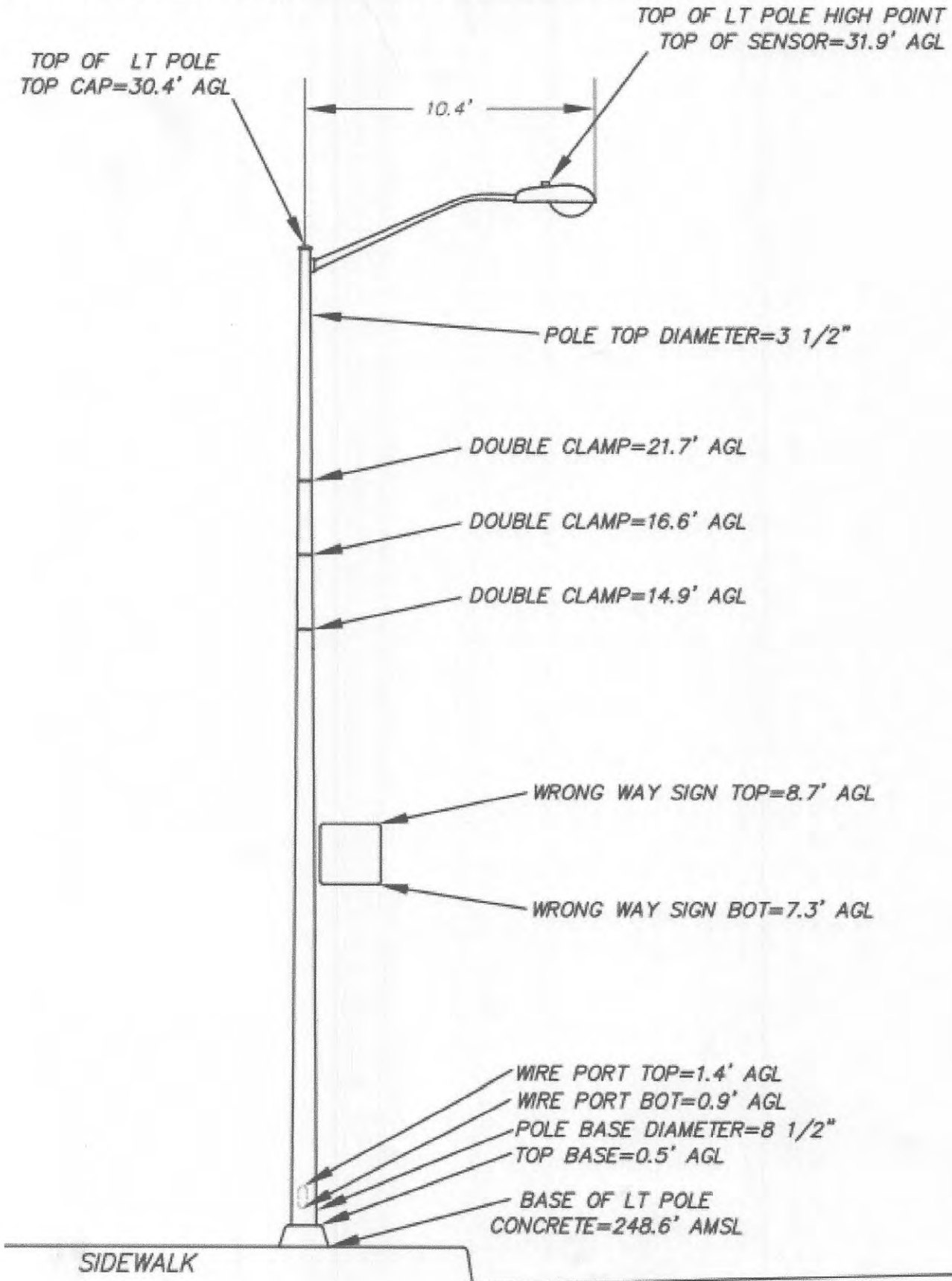
$S_I = 0.717g$

$S_{MI} = 1.075g$

$S_{DI} = 0.717g$

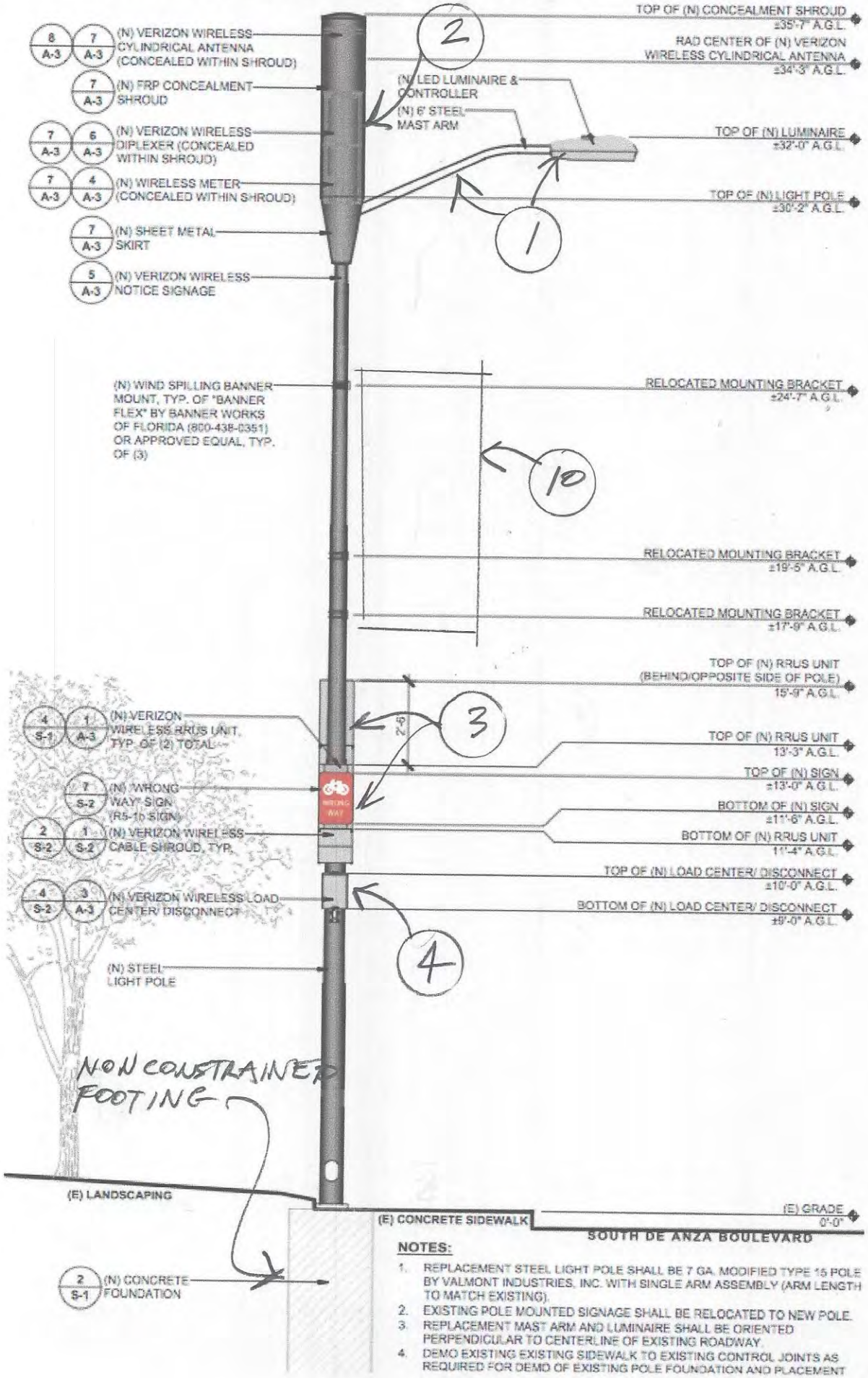
VERIZON SF_CUPER001 10465 SOUTH DE ANZA BLVD

p. 4/14



EXISTING GROUND ELEVATION: AT BASE OF LT POLE=248.6' AMSL

VERIZON SF_CUPER001 10465 SOUTH DE ANZA BLVD



NOTES:

1. REPLACEMENT STEEL LIGHT POLE SHALL BE 7 GA. MODIFIED TYPE 15 POLE BY VALMONT INDUSTRIES, INC. WITH SINGLE ARM ASSEMBLY (ARM LENGTH TO MATCH EXISTING).
2. EXISTING POLE MOUNTED SIGNAGE SHALL BE RELOCATED TO NEW POLE.
3. REPLACEMENT MAST ARM AND LUMINAIRE SHALL BE ORIENTED PERPENDICULAR TO CENTERLINE OF EXISTING ROADWAY.
4. DEMO EXISTING EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING POLE FOUNDATION AND PLACEMENT

APPURTENANCE DATA

p. 6/14

<u>NOTE²</u>	<u>DESCRIPTION</u>	<u>C_A</u>	<u>A_A (SF)</u>
①	MAST/LUMINAIRE	0.82	3.0
②	ANTENNA RADOME/SKIIRT	0.82	9.4
③	(2) RRUS/CABLE SHROUD	1.20	3.0 EA
④	LOAD CENTER	1.20	1.0
⑤	1.5 SF MAX. SIGN	1.40	1.5
⑥	2.5 SF MAX. SIGN	1.40	2.5
⑦	4.0 SF MAX. SIGN	1.20	4.0
⑧	6.0 SF MAX. SIGN	1.20	6.0
⑨	8.0 SF MAX. SIGN	1.20	8.0
⑩	19.5 SF BANNER	0.60 ¹	19.5

- 1 USE WIND SPILLING BANNER SYSTEM
2 SEE P. 5/14, POLE ELEVATION.

REUSE OF EXISTING APPURTENANCES

- REMOVE & REINSTALL SIGNS ETC. FOR REUSE WHERE A NEW POLE IS SPECIFIED. WHERE POLE IS TO BE REUSED, PROTECT IN PLACE
- REPLACE DAMAGED OR CORRODED ELEMENTS IN KIND.

NEW POLE/MAST/LUMINAIRE

P. 7/14

PROVIDE NEW 7 GAGE (0.179 inch
WALL THICKNESS) TAPERED STEEL 8"
POLE W/ BASE PLATE AND MAST ARM
BY VALMONT (SEE NEXT SHEET)

DESIGN SPREADSHEET, P. 13/14,
SHOWS BENDING AND AXIAL STRESSES
TO FALL INTO ALLOWABLE LIMITS.

P. 8/14

DESIGN CRITERIA
 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL, ALUMINUM, AND TRAFFIC SIGNALS. FATIGUE LOADS SPECIFIED IN CHAPTER 11 ARE NOT INCLUDED IN THIS DESIGN.
 WIND VELOCITY: 100 MPH ISOTACH
 LOADING CRITERIA (EACH LUMINAIRE ARM)
 MAXIMUM FIXTURE EPA = 3.30 FT²
 MAXIMUM FIXTURE WEIGHT = 55.0 LBS

DESIGN/LOADING CRITERIA

REMOVABLE END CAP

FINISH DATA

COMPONENT	ASTM DESIGNATION	YIELD (KSI)
TAPERED TUBES	A500 GR. A	55
BASE PLATE	A572 GR. 50	50
BASE PLATES	A572 GR. 50	50
WASHERS	A325	---
LUM. CONN. BOLTS	A325	---
PIPE / TUBING	A501, A519, A518	36
ANCHOR BOLTS	A500 GR. B OR C	55
HARDWARE COATING	F1554 GR. 55 HOT-DIP-ZINC	---

LUMINAIRE ARM DATA

PROJECTED LENGTH (FT)	RISE (FT)	ARM BASE DIA. (IN)	ARM THICKNESS (IN)	NOMINAL LUMINAIRE MTB. HEIGHT (IN)
5.33	2.00	3.36	0.119	31.50
8.33	2.50	3.65	0.119	32.00
10.33	3.25	3.95	0.119	32.75
12.33	4.25	4.27	0.119	33.75
15.33	4.75	4.68	0.119	34.25

DETAIL 1 POLE TOP

8.00" NOMINAL STRAIGHT SECTION - REFERENCED TO 2.38" O.D.

DETAIL 2 LUMINAIRE ARM END

DETAIL 3 LUMINAIRE ARM ATTACHMENT

DETAIL 4 POLE I.D. TAG

DETAIL 5 HANDHOLE

DETAIL 6 POLE BASE PLATE

DETAIL 7 ANCHOR BOLT

DETAIL 8 ANCHOR PLATE

DETAIL 9 POLE WELD DETAIL

DETAIL 10 STANDARD ORIENTATION

DETAIL 11 RADIAL INDEX

DETAIL 12 ALL ANGLES MEASURED CLOCKWISE FROM HANDHOLE SMALL END OF POLE

DETAIL 13 REMOVABLE END CAP

DETAIL 14 DESIGN/LOADING CRITERIA

DETAIL 15 DESIGN CRITERIA

DETAIL 16 FINISH DATA

DETAIL 17 POLE DATA

POLE TYPE	POLE TUBE		POLE BASE		ANCHOR BOLT				ANCHOR PLATE				
	LENGTH (IN)	BASE DIA. (IN)	THICKNESS (IN)	TP DIA. (IN)	BOLT DIA. (IN)	LENGTH (IN)	THREAD LENGTH (IN)	M1 (IN)		M2 (IN)	M3 (IN)	M4 (IN)	
MODIFIED 150	30.00	8.00	3.80	0.179	12.00	11.50	2.000	1.36	1.94	11.00	12.00	10.00	DESIGNED/PROVIDED BY OTHERS

DETAIL 18 VIBRATION DISCLAIMER

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE TO THE PRODUCT MAY OCCUR UNDER CERTAIN CIRCUMSTANCES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION OF THE PRODUCT FOR VIBRATION DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION. HANDHOLES ARE PROVIDED TO FACILITATE INSPECTION WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

DETAIL 19 CITY OF CUPERTINO STREET LIGHTING POLES MODIFIED TYPE 150 POLES SLOTTED BASEPLATE

VALMONT
 VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS ENGINEER APPROVED MATERIAL HANGING ACCORDING TO THE MANUFACTURING PROCESS.
 94118 NE 68064
 (402) 959-2201

PAGE NUMBER: 2 OF 2
 DRAWING NUMBER: DB01149

20A.

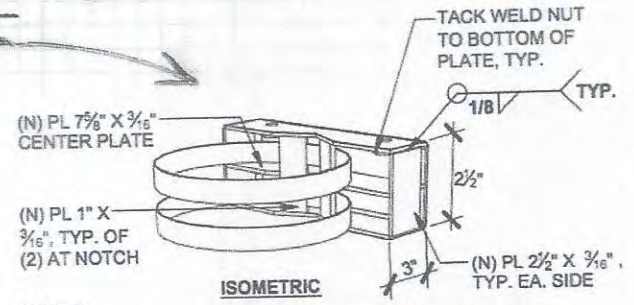
NEW ANTENNA/RADOME/SKIRT

THE DESIGN OF THESE ELEMENTS, AND THEIR ATTACHMENT TO THE POLE, ARE BY OTHERS

NEW RRUS, CABLE SHROUD, AND LOAD CENTER ANCHORAGE TO POLE

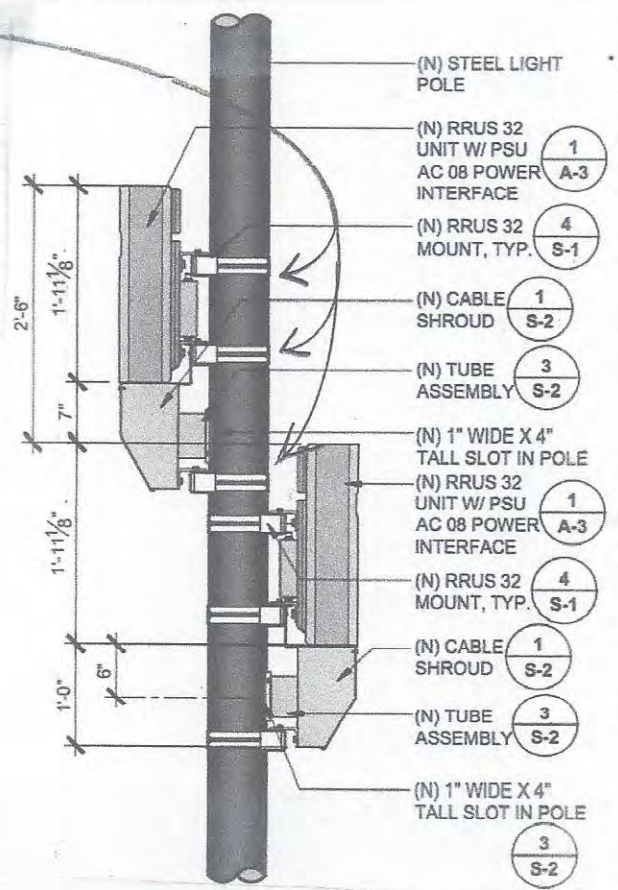
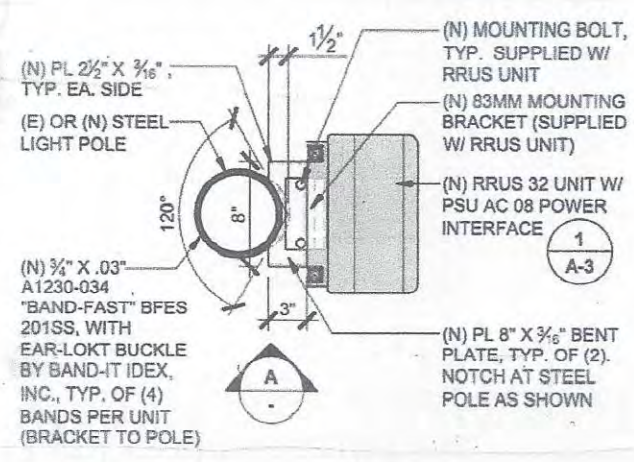
PROVIDE 3/16" STEEL ASSEMBLY WITH 1/2" FILLET WELDS, W/2-3/4X0.03 STAINLESS BANDS TO POLE.

USE 2 ANCHORAGE ASSEMBLIES AT EACH RRUS UNIT, AND 1 AT CABLE SHROUD



- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER CLEARANCE FOR PSU AC08 UNIT.
 - PRIME AND PAINT MOUNTING COMPONENTS WITH TNEMEC EXTERIOR PAINT COATING TO MATCH POLE.
 - WELD ALL STEEL PLATE COMPONENTS WITH 1/2" FILLET WELDS.

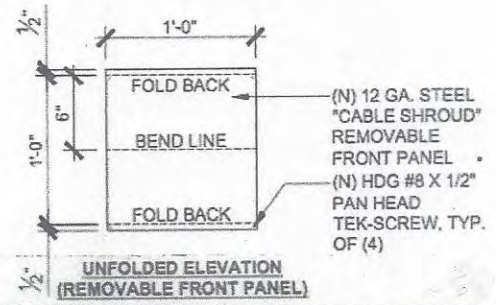
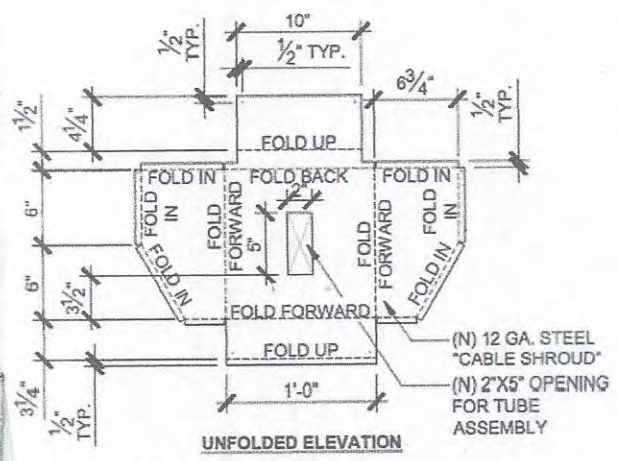
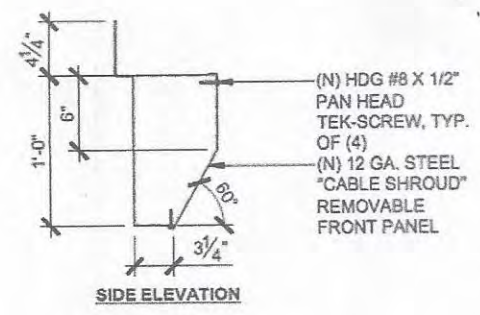
SEE NEXT SHIT FOR CABLE SHROUD AND ACCESS SLOT IN POLE.



NEW GSM CABLE SHROUD

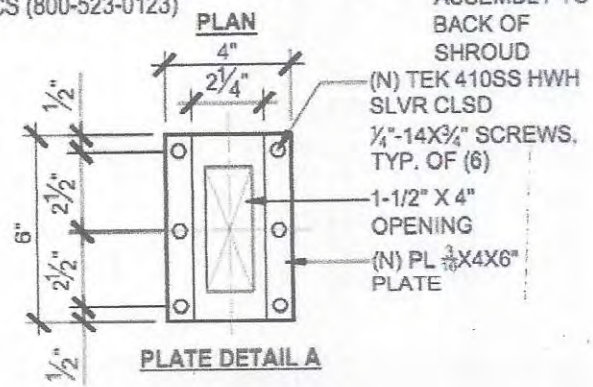
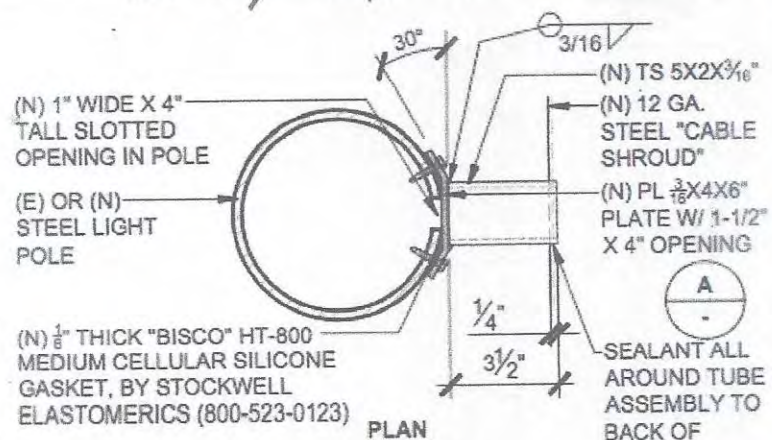
FABRICATE 12 GA GALV SHEET METAL SHROUD FOR FOR ALL CONDUCTORS TO AND FROM RRUS

ANCHOR TO POLE @ BOTTOM, AND TO RRUS MOUNTING CLAMP ABOVE
(SEE P 9/14)



CONDUCTOR ACCESS TUBE

ELEMENTS & CONNECTIONS OK BY Insp. ✓



SLOT IN (N) POLE

$$n = 9.95 k' (\text{@ } 10' \text{ AGL})$$

$$S_{10} = 5.04 (6.25" \text{ } b)$$

$$f_b = \frac{9.95 \times 12}{5.04} = 24 \text{ ksi}$$

12 GA, 4" HIGH X 3" WIDE SEGMENTS, FIXED/FIXED NOT ASSUMING CURVED CROSS-SECTION.

$$KL/r = 0.5(4) / 0.052 = 38.4 \therefore F_a = 26 \text{ ksi}$$

SLOT OK ✓ 724 ✓

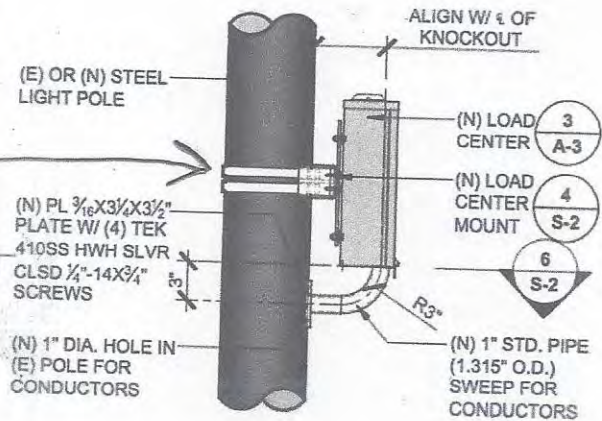
NEW LOAD CENTER AND CABLE SWEEP

P. 11/14

AND SHEET STEEL SIGN SUPPORTS

S.A.D. FOR CABINET INFO, BY OTHERS

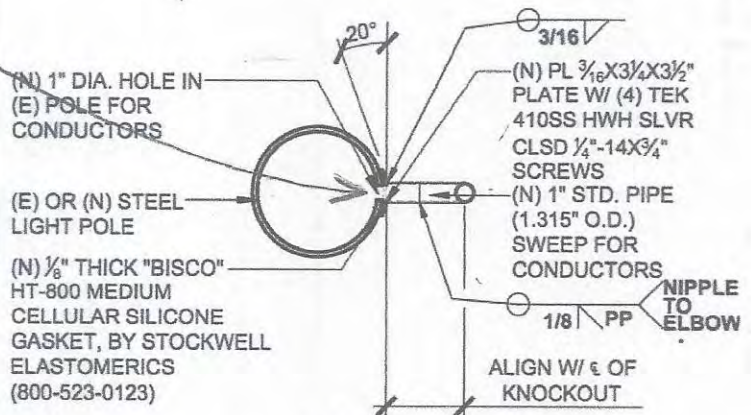
ANCHOR TO POLE W/ ANCHORAGE ASSY. PER PREVIOUS EXC. USE 10" LONG MOUNT.



PROVIDE 1" φ HOLE IN POLE FOR CONDUCTORS.

ok by insp.

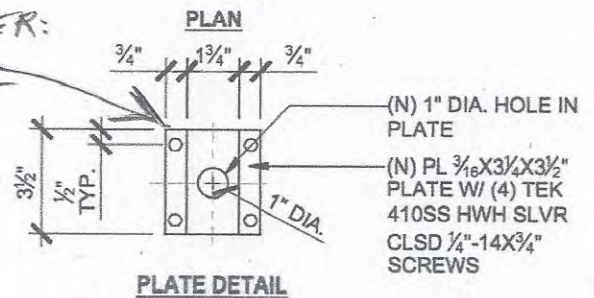
IF FIELD DRILLED, TREAT W/ PROTECTION PER ARCH. DWGS.



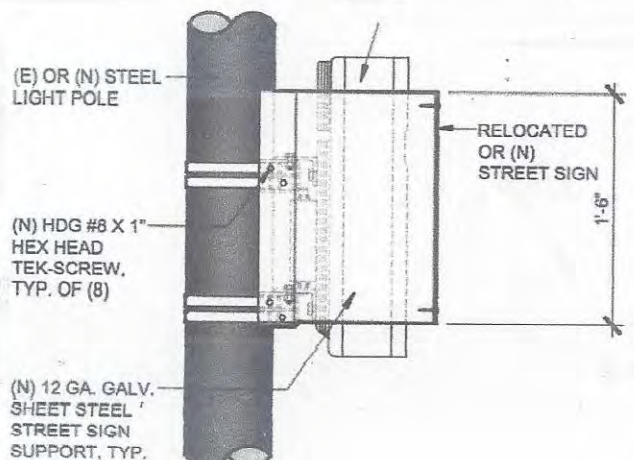
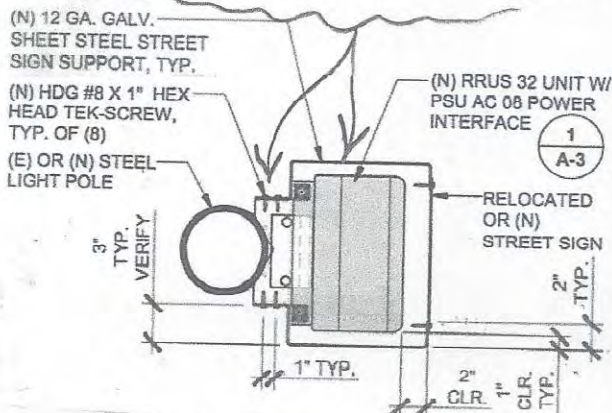
PROVIDE SCREW ON SWEEP ASSEMBLY WITH GASKET PER ARCH DWGS.

CUMBER:

SAY 200#
ok by insp.



USE 12 GA STEEL SIGN SUPPORTS PER ARCH DWGS. W/ 8-#8 SCREWS TO MOUNTS



P. 12/14

**Design Wind Loads on Antenna Supporting Structures
TIA 222 REVISION G & 2013 AASHTO LTS-6**

PROJECT: **VERIZON SF_CUPER001 10465 SOUTH DE ANZA BLVD**
10465 South De Anza Boulevard
Cupertino, CA 95014

Tapered Steel Light Pole

h = 30.00 ft
Db = 8.00 in
Dt = 3.80 in
t = 0.179 in
wp = 525 #

7 GA

Pole Height
Diameter at base
Diameter at top
Wall Thickness
pole weight

Properties of section at pole base

D = 8.00 in
A = 4.50
t = 0.179 in
S = 8.41 in³
I = 33.65 in⁴

Appurtenances	unit		C _A	A _A	C _A A _A	y	C _A A _A y	wty
	EA	wt						
1 MAST/LUMINAIRE	1	80	0.82	3.00	2.45	32.00	78.5	2560
2 ANTENNA RADOME/SKIRT	1	70	0.82	9.37	7.66	32.50	249.1	2275
3 RRUS/CABLE SHROUD	2	45	1.20	3.00	7.20	13.00	93.6	1170
4 LOAD CENTER	1	25	1.20	1.00	1.20	9.50	11.4	238
5 1.5 SF MAX SIGN	0	3	1.40	1.50	0.00	1.00	0.0	0
6 2.5 SF MAX SIGN	0	5	1.40	2.50	0.00	1.00	0.0	0
7 4.0 SF MAX SIGN	0	8	1.20	4.00	0.00	1.00	0.0	0
8 6.0 SF MAX SIGN	0	16	1.20	6.00	0.00	1.00	0.0	0
9 8.0 SF MAX SIGN	0	24	1.20	8.00	0.00	11.50	0.0	0
10 19.5 SF BANNER	1	30	0.60	19.50	11.70	21.00	245.7	630
11 MISC.	0	100	1.80	6.00	0.00	1.00	0.0	0
	wa =	295		(EPA) _A =	30.22		678.3	6873

TIA 222 Wind on Pole

Section 2.6.9.1

F_{st} = 195 lb

Design Wind Force on Pole
= q_zG_H(EPA)_sN

q_z = 9.74 psf

Velocity Pressure
= 0.00256K_zK_{zt}K_dV²I

Section 2.6.9.6

z = 13.22 ft

Height of Pole Centroid

alpha = 7

WIND EXP = B

Wind Exposure Category

Z_g = 1200

G_H = 1.1

Gust Effect Factor

Section 2.6.7.3

K_z = 0.554

Velocity Pressure Coefficient

Section 2.6.5.2

K_{zt} = 1.00

Topographic Factor

Section 2.6.6.4

K_d = 0.95

Wind Direction Probability Factor

Table 2-2

V = 85 mph

Basic Wind Speed

I = 1.00

Importance Factor

Table 2-3

(EPA)_s = 18.20

Effective Proj. Area of Structure

Section 2.6.9.1.2

C_r = 1.234

Force Coefficient (32 < C < 64)

Table 2-7

C = 31.12

= (IK_{zt}K_z)^{1/2}VD

Table 2-7

D avg = 5.90 in

A_o = 14.75 sf

Projected Area of Pole

TIA 222 Wind on Appurtenances

F_A = 324 lb

Design Wind Force on Appurtenances

Section 2.6.9.2

y_{res} = 22.45 ft

= q_zG_H(EPA)_A

Height of Resultant of Wind on Appurtenances

AASHTO LTS-6 WIND on Pole and Appurtenances

F_w = 958 lb

$K_z = 1.00$ below 32.8ft
 $G = 1.14$
 $V = 90$ mph
 $I_r = 1.00$ 50 yr, non-hurricane
 $CaAa = 40.54 (EPA)_a + (EPA)_s$

Height and Magnitude of Resultant of Critical Lateral Forces on Pole and Appurtenances

$F_w = 519$ lb	TIA 222 WIND	Section 2.6.9
958 lb	AASHTO LTS-6 WIND	
$F_p = 0.63$ Wp	= $S_{ds}/(R/I)$	SEISMIC
514 lb	SEISMIC	R = 2.00
958 #	CRITICAL LATERAL FORCE	I = 1.00
19.65 ft	RESULTANT HEIGHT	$S_{ds} = 1.25268$
18.83 ft lb	DESIGN BASE MOMENT	Fa = 1.00
		Ss = 1.90

Pole Stress and Bolt Tension

WT = 820 #		
fa = 0.18 ksi	axial	
M = 18.83 ft k		
fb = 26.86 ksi	bending	
f = 27.05 ksi	total stress	
D/t = 45	width/thickness ratio of pole	
non-compact limit = 60	= $3300/F_y$	
Fb' = 48.28 ksi	allowable stress	OK ✓
Bolt Circle Diameter = 11.50 in		
Dist btwn bolt pairs = 8.13 in		
T = 13.90 k	tension force per bolt	
20.88 k	allowable bolt tension	OK ✓

Foundation Adequacy

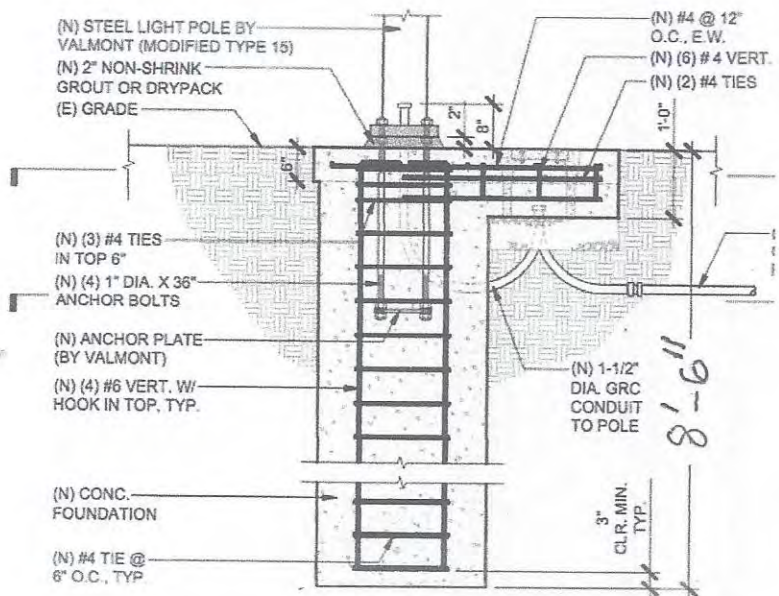
b = 2.5 ft	Diameter or width of footing	
d = 8.5 ft	Depth of footing	
Lateral Soil pressure allowed = 150 psf/ft		
S1 = 425 psf		
S3 = 1275 psf		
A = 2.11		
d (NON) = 7.86 ft	Required	OK for nonconstrained footing
d (CON) = 5.01 ft	Required	OK for constrained footing

NEW REINFORCED CONCRETE PIER FOOTING

PROVIDE 2'-6" ϕ x 6'-6" DEEP PIER FTG, W/4-#6 VERT AND #4 TIE @ 12". CAST IN AN ADJACENT JUNCTION BOX.

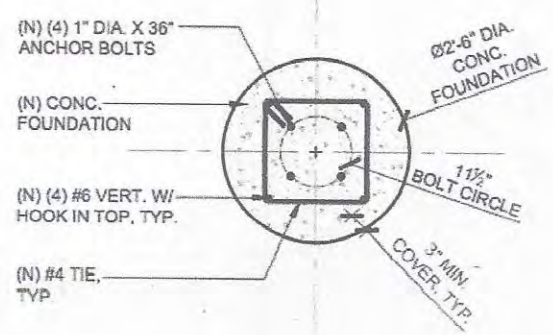
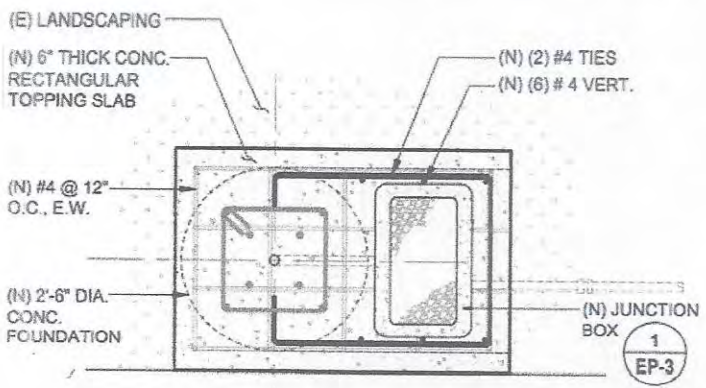
PROVIDE 4-1" ϕ x 36" x 4" A.B. DOUBLE NUTS, DRYPACK

ABANDON (E) FTG IN PLACE, CAST (N) FTG ADJACENT (S.A.D.). REPLACE SIDEWALK, ETC.



CONCRETE FLEXURAL DESIGN

$A_s =$	0.872 in ²
$b =$	19 in
$d =$	19 in
$f'_c =$	2.5 ksi
$f_y =$	60 ksi
$M =$	45 k-ft
Load Factor	1.6
$M_u =$	864 k-in
$\phi =$	0.9
$f_y / 0.85 f'_c b =$	1.486
$M_u / \phi f_y =$	16.000



Radio Frequency - Electromagnetic Energy (RF-EME) Jurisdictional Report

Site No. CPSC001
SF_CUPER001
10465 S. De Anza Boulevard
Cupertino, California 95014
Santa Clara County
37° 18' 58.99" N, -122° 1' 57.00" W NAD83

EBI Project No. 6218000319
March 9, 2018



Prepared for:

Verizon Wireless
c/o Modus, LLC
240 Stockton Street, 3rd Floor
San Francisco, CA 94108

Prepared by:



TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	2
2.0 SITE DESCRIPTION	2
3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS	3
4.0 WORST-CASE PREDICTIVE MODELING	5
5.0 MITIGATION/SITE CONTROL OPTIONS	7
6.0 SUMMARY AND CONCLUSIONS	7
7.0 LIMITATIONS	7

APPENDICES

- APPENDIX A CERTIFICATIONS**
- APPENDIX B RADIO FREQUENCY ELECTROMAGNETIC ENERGY SAFETY / SIGNAGE PLANS**
- APPENDIX C ROOFVIEW® EXPORT FILES**

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Verizon Wireless to conduct radio frequency electromagnetic (RF-EME) modeling for Verizon Site CPSC001 located at 10465 S. De Anza Boulevard in Cupertino, California to determine RF-EME exposure levels from proposed Verizon wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Additionally, there are areas where workers who may be elevated above the ground may be exposed to power densities greater than the occupational limits. Therefore, workers should be informed about the presence and locations of antennas and their associated fields.

At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately **51.50** percent of the FCC's general public limit (**10.30** percent of the FCC's occupational limit).

The composite exposure level from all carriers on this site is approximately **51.50** percent of the FCC's general public limit (**10.30** percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes instructions to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

1.0 INTRODUCTION

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per seconds (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 1900-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed a distance above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

2.0 SITE DESCRIPTION

This project site includes one (1) wireless telecommunication antenna (at three sector locations) on a light pole located at 10465 S. De Anza Boulevard in Cupertino, California.

Verizon Antenna Information (proposed Configuration)									
Antenna # and Model	Frequency (MHz)	# of Transmitters	Transmit Power (Watts)	Azimuth	Gain (dBd)	Feet above Ground (CL)	X	Y	Z (feet)
A1 Amphenol CUUT360X06F56	1900	2	48.7	0°	7.65	34.3	30	30	33.3
	2100	2	53.8						
B1 Amphenol CUUT360X06F56	1900	2	48.7	120°	7.65	34.3	30	30	33.3
	2100	2	53.8						
C1 Amphenol CUUT360X06F56	1900	2	48.7	240°	7.65	34.3	30	30	33.3
	2100	2	53.8						

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general public that may be exposed to antenna fields. While access to this site is considered uncontrolled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent rooftop locations. Additional

information regarding controlled/uncontrolled exposure limits is provided in Section 3.0. Appendix B presents a site safety plan that provides a plan view of the light pole with antenna locations.

3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

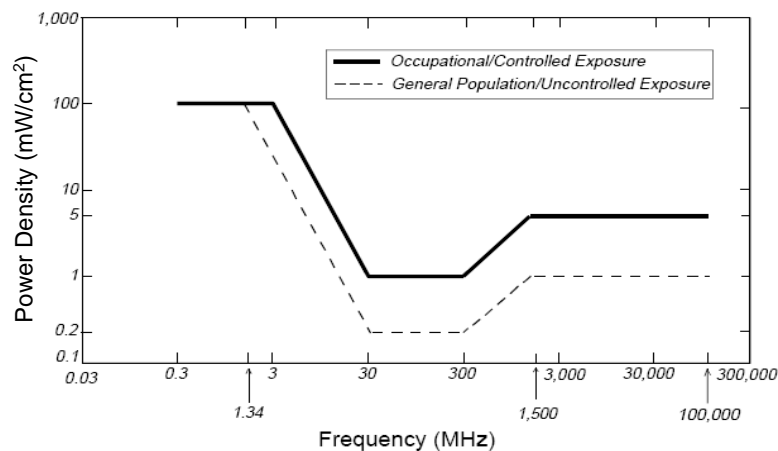
The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Verizon equipment operating at 700 MHz or 850 MHz, the FCC's occupational MPE is 2.83 mW/cm² and an uncontrolled MPE of 0.57 mW/cm². These limits are considered protective of these populations.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
 Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq, Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 1900-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

4.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level and nearby rooftops resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. The modeling assumes a maximum 4-4-4 radio configuration for Sectors A, B and C, with a power level of 46.9 dBm (48.7 watts) per transmitter for the 1900 frequency and 47.3 dBm (53.8 watts) per transmitter for the 2100 frequency, in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by Verizon, and information gathered from other sources. The parameters used for the modeling are summarized in the RoofView® export files presented in Appendix C.

There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed Verizon antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 51.50 percent of the FCC's general public limit (10.30 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 51.50 percent of the FCC's general public limit (10.30 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

The Site Safety Plan also presents areas where Verizon Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix B. It should be noted that RoofView is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage.

5.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are no areas in front of the Verizon antennas that exceed the FCC standards for occupational or general public exposure. All exposures above the FCC's safe limits require that individuals be elevated above the ground. In order to alert people accessing the light pole at ground level, yellow CAUTION signs are recommended for installation 9 feet below the antenna (24 feet above the ground). These signs must be placed in a conspicuous manner so that they are visible to any person approaching the light pole from any direction.

There are no barriers recommended on this site.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the light pole should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

Implementation of the signage recommended in the Site Safety Plan and in this report will bring this site into compliance with the FCC's rules and regulations.

6.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Verizon Site Number CPSC001 located at 10465 S. De Anza Boulevard in Cupertino, California to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

7.0 LIMITATIONS

This report was prepared for the use of Verizon Wireless. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

Appendix A

Certifications

Reviewed and Approved by:



sealed 24jan2018


Michael McGuire
Electrical Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the structure, as well as the impact of the antennas and broadcast equipment on the structural integrity of the structure, are specifically excluded from EBI's scope of work.

Preparer Certification

I, Jos Schorr, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified “occupational” under the FCC regulations.
- I 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.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.

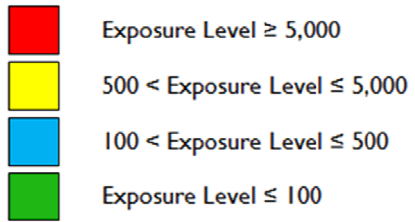
A rectangular box containing a handwritten signature in black ink. The signature appears to be 'Jos Schorr' with a stylized flourish at the end.

Appendix B

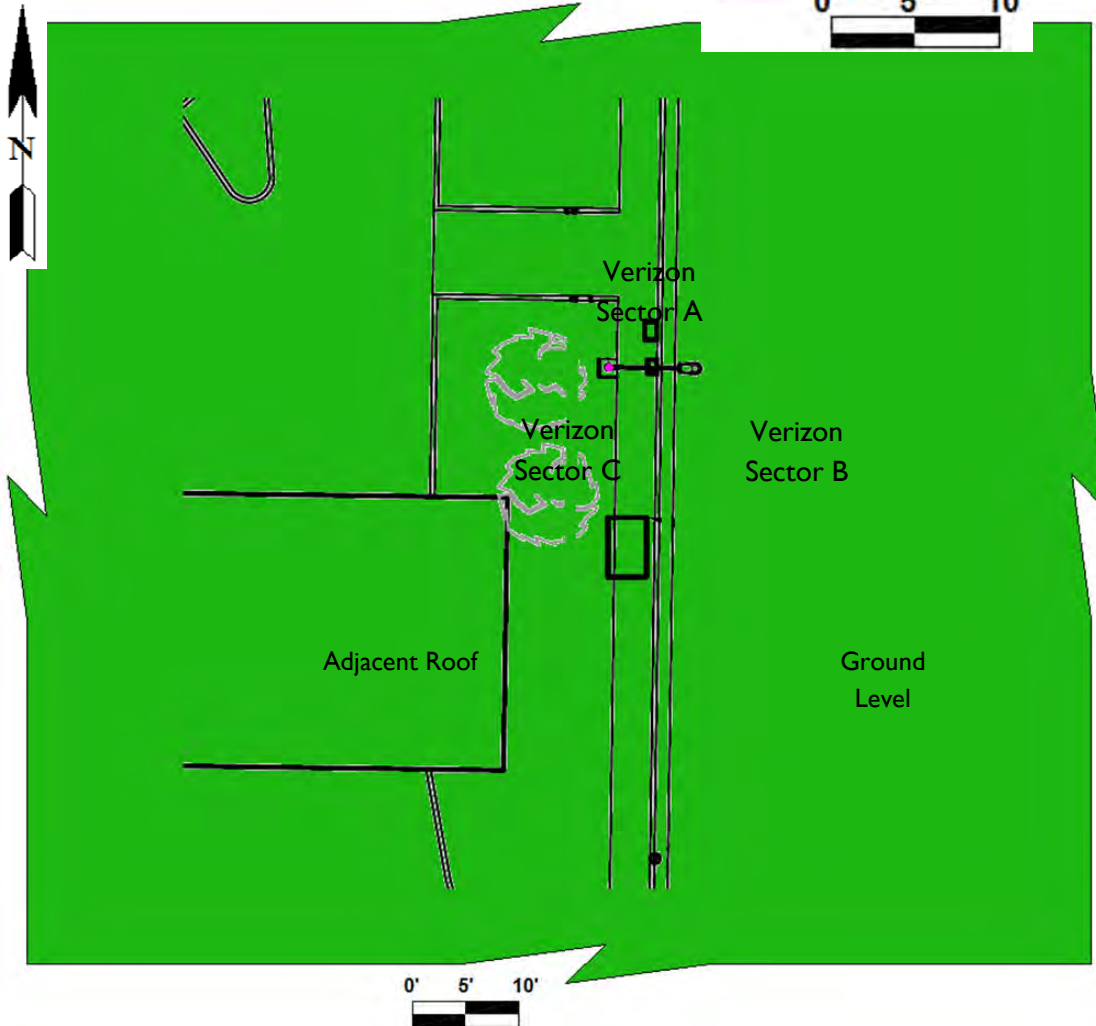
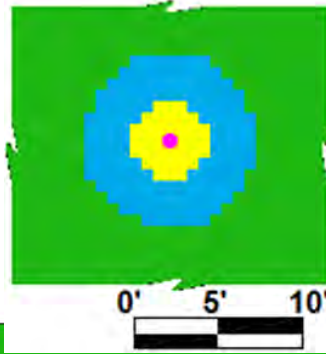
Radio Frequency Electromagnetic Energy

Safety / Signage Plans

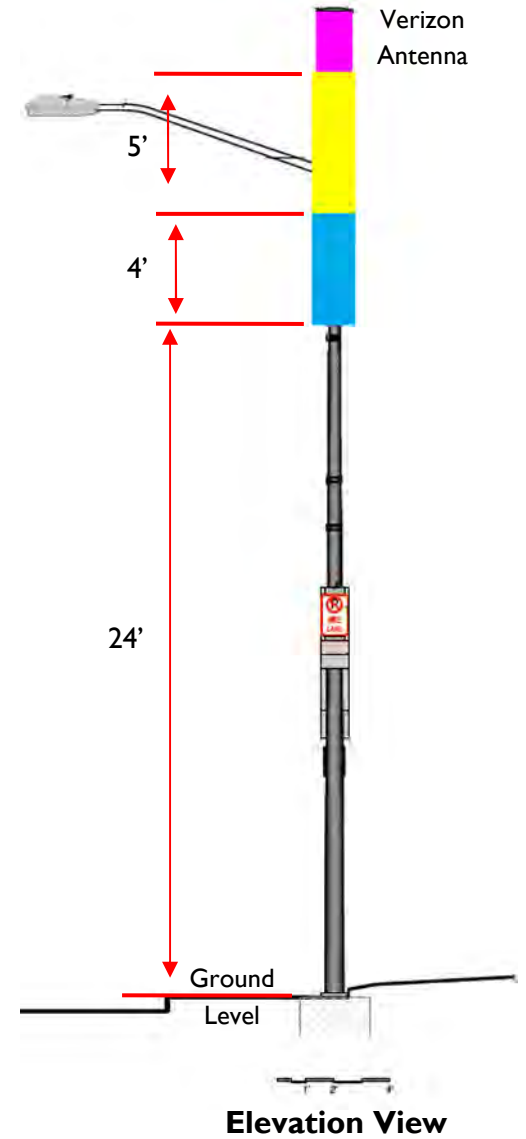
% FCC Public Exposure Limit



Antenna Face View



 **Verizon Antennas**



Roofview: Composite Exposure Levels



Facility Operator: Verizon Wireless

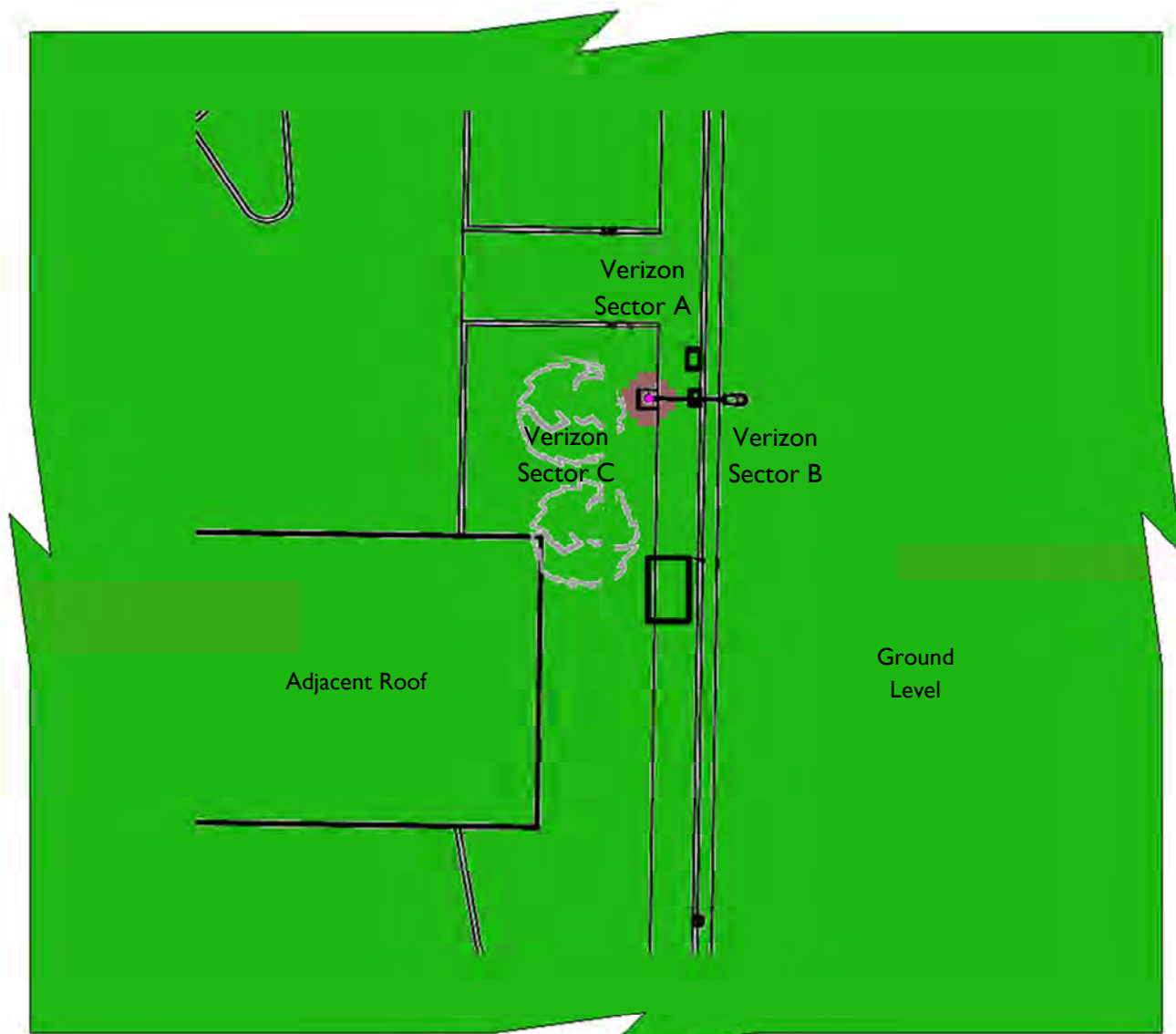
Site Name: SF_CUPERO01


Verizon Site Number: CPSC001

Report Date: 03-09-18

% FCC Public Exposure Limit

-  Exposure Level > 5
-  Exposure Level ≤ 5



 Verizon Antennas

Roofview: Verizon Exposure Levels

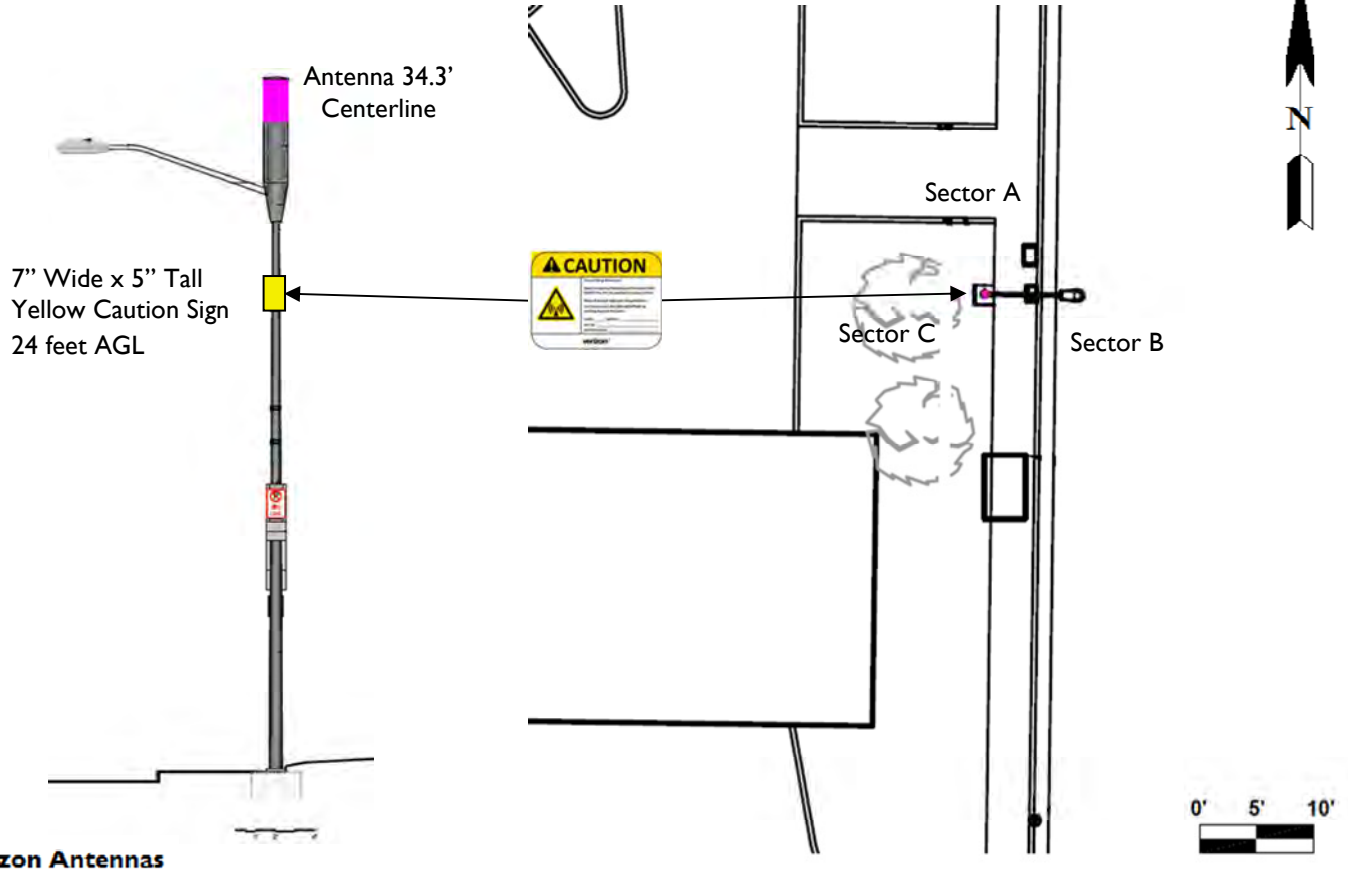
Facility Operator: Verizon Wireless






Site Name: SF_CUPER001

Verizon Site Number: CPSC001

Report Date: 03-09-18

Verizon Signage Plan



Sign Image	Description	Posting Instructions	Required Signage
	Notice To Workers Informational sign, used to notify workers that there are active antennas installed and provide guidelines for working in RF environments.	Not required	Not required
	NOC Information Sign Informational sign with NOC Phone Number and Base Transceiver Station (BTS) Number	Not required	Not required
	Blue Notice Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas exceeds the FCC's maximum permissible exposure limit for the general public but is less than the occupational exposure limit.	Not required	Not required
	Yellow Caution Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas may exceed the FCC's maximum permissible exposure limit for the general public and the occupational exposure limit.	Securely post on opposite sides of the light pole in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	2 signs on opposite sides of the pole 9 feet below the antenna (24 feet above ground level). Install 7" wide x 5" tall CAUTION sign.
	Red Warning Sign Used to alert individuals that they are entering an area where the power density emitted from the transmitting is substantially above the FCC's maximum permissible limit for occupational exposure (greater than ten times the Occupational limit).	Not required	Not required

Appendix C

Roofview® Export File

Map, Settings, Antenna, and Symbol Data Table .. Exported from workbook -> RoofView 4.15.xls
 Done on 1/23/2018 at 11:09:36 AM.
 Use this format to prepare other data sets for the RoofView workbook file.
 You may use as many rows in this TOP header as you wish.
 The critical point are the cells in COLUMN ONE that read 'Start...' (eg. StartMapDefinition)
 If used, these (4) headers are required to be spelled exactly, as one word (eg. StartMapDefinition)
 The very next row will be considered the start of that data block.
 The first row of the data block can be a header (as shown below), but this is optional.
 When building a text file for import, Add the Map info first, then the Antenna data, followed by the symbol data.
 All rows above the first marker line 'Start...' will be ignored, no matter how many there are.
 This area is for you use for documentation.
 End of help comments.

You can place as much text here as you wish as long as you don't place it below
 the Start Map Definition row below the blue line.
 You may insert more rows using the Insert menu.
 Should you need additional lines to document your project, simply insert additional rows
 by highlighting the row number adjacent to the blue line below and then clicking on the Insert menu
 and selecting rows.

StartMapDefinition

Roof Max Y Roof Max X Map Max Y Map Max X Y Offset X Offset Number of envelope
 60 60 80 90 20 20 1 \$AE\$141:\$AE\$141:\$CL\$200

List Of Areas
 \$AE\$141:\$CL\$200

StartSettingsData

Standard Method Uptime Scale Facto Low Thr Low Color Mid Thr Mid Color Hi Thr Hi Color Over Color Ap Ht Mult Ap Ht Method
 4 2 1 1 100 1 500 4 5000 2 3 1.5 1

StartAntennaData

It is advisable to provide an ID (ant 1) for all antennas

ID	Name	Freq (MHz)	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	X (ft)	Y (ft)	Z (ft)	Type	Aper (ft)	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
VZW A1	LTE	1900	48.677	2					97.354	Amphenol	CUUT360XI	30	30	33.25			2	7.65 120;0		ON•
VZW A1	LTE	2100	53.831	2					107.662	Amphenol	CUUT360XI	30	30	33.25			2	7.65 120;0		ON•
VZW B1	LTE	1900	48.677	2					97.354	Amphenol	CUUT360XI	30	30	33.25			2	7.65 120;120		ON•
VZW B1	LTE	2100	53.831	2					107.662	Amphenol	CUUT360XI	30	30	33.25			2	7.65 120;120		ON•
VZW C1	LTE	1900	48.677	2					97.354	Amphenol	CUUT360XI	30	30	33.25			2	7.65 120;240		ON•
VZW C1	LTE	2100	53.831	2					107.662	Amphenol	CUUT360XI	30	30	33.25			2	7.65 120;240		ON•

StartSymbolData

Sym	Map Mark	Roof X	Roof Y	Map Label	Description (notes for this table only)
Sym		5	35	AC Unit	Sample symbols
Sym		14	5	Roof Access	
Sym		45	5	AC Unit	
Sym		45	20	Ladder	



PERMIT SUBMITTAL NOTICE

Verizon Site Number: SF_CUPER001

Verizon Wireless, in partnership with the City of Cupertino, is happy to announce that it will soon be improving coverage and data capacity to its network in your neighborhood. The improved wireless coverage will help accommodate the growing number of wireless calls and data use on the Verizon Wireless network. The Verizon Wireless small cell site will greatly enhance service capacity with the most aesthetically discrete technology available today.

In order to make these upgrades, Verizon Wireless is proposing a small cell on a streetlight pole located in the public right of way near the intersection of S De Anza Blvd & McClellan Rd. The major components of the proposed installation include the following:

- Removing the existing steel streetlight pole and replacing with a new steel streetlight pole similar in size
- Installing (1) canister antenna on top of the streetlight pole
- Installing (2) small remote radio units (RRUs) on the side of the streetlight pole

Included in this letter are the following documents:

- Map showing the proposed project location
- Photo simulations showing the before and after view of the proposed project

Part of the permitting process through the City of Cupertino Department of Public Works (DPW) involves notifying residents located within 300' of the proposed project site about the installation. Residents are invited to contact Verizon Wireless, within 14 days of the postmarked date on the envelope, with any questions or concerns regarding this installation. All inquiries will be logged and shared with the City of Cupertino Public Works Department prior to issuance of any permits for this work.

After construction is completed, Verizon will perform on site testing to ensure the small cell is operating within FCC standards for Radio Frequency Emissions. Residents within 100' of the site will be notified of the date of the testing and may request, in advance that Verizon Wireless perform tests on their property at that time.

For further information, and answers to frequently asked questions, please check the FAQ on Small Cell Facilities provided on the City of Cupertino website here:

<http://www.cupertino.org/home/showdocument?id=19317>

Contact Information:

Modus Representing Verizon Wireless:

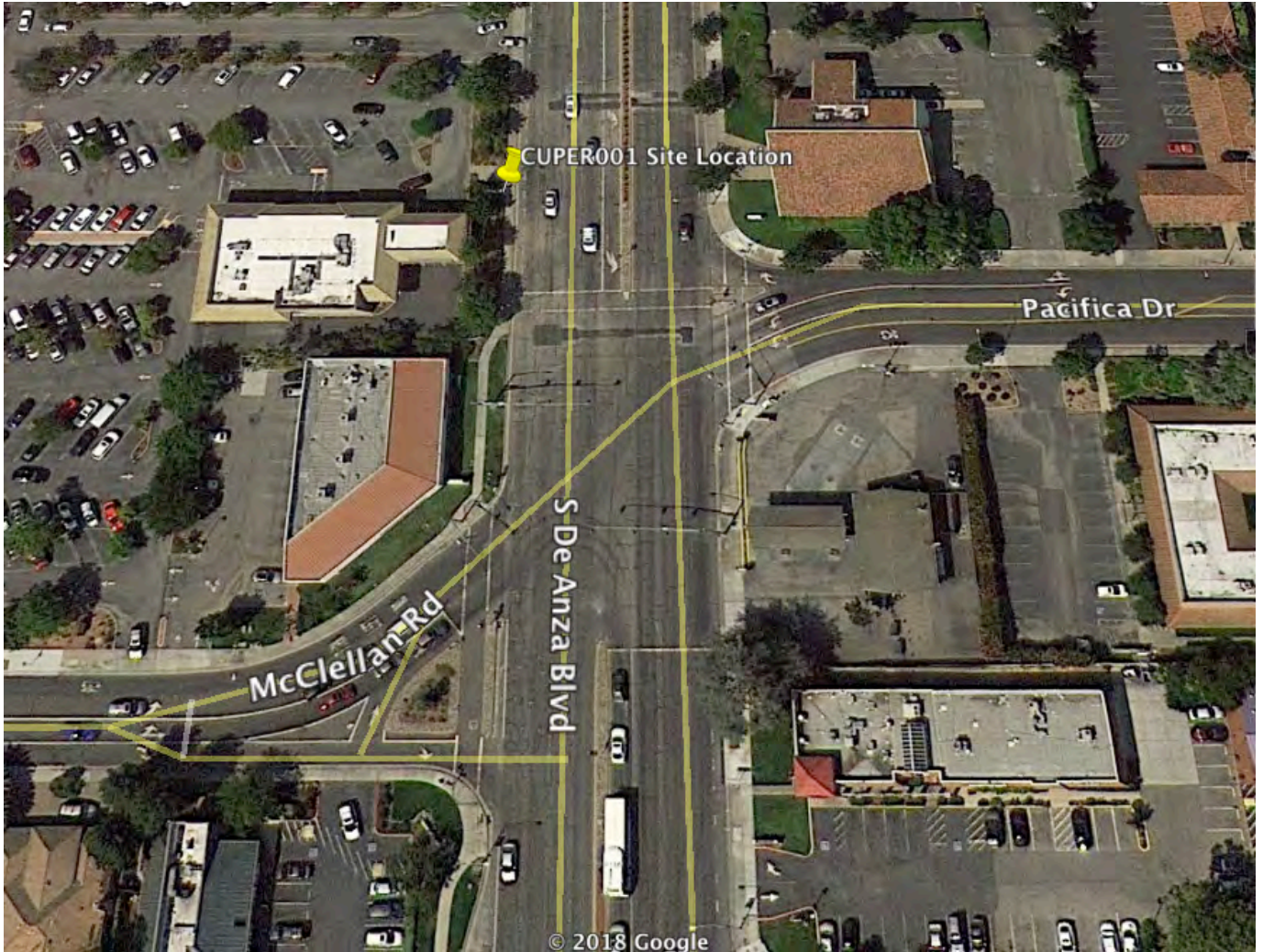
Kevin Bowyer

Phone: (415) 989-1102

Email: kbowyer@modus-corp.com



Location of Installation on City Streetlight



Existing



Proposed



view from S De Anza Blvd looking south at site

view from S De Anza Blvd looking north at site



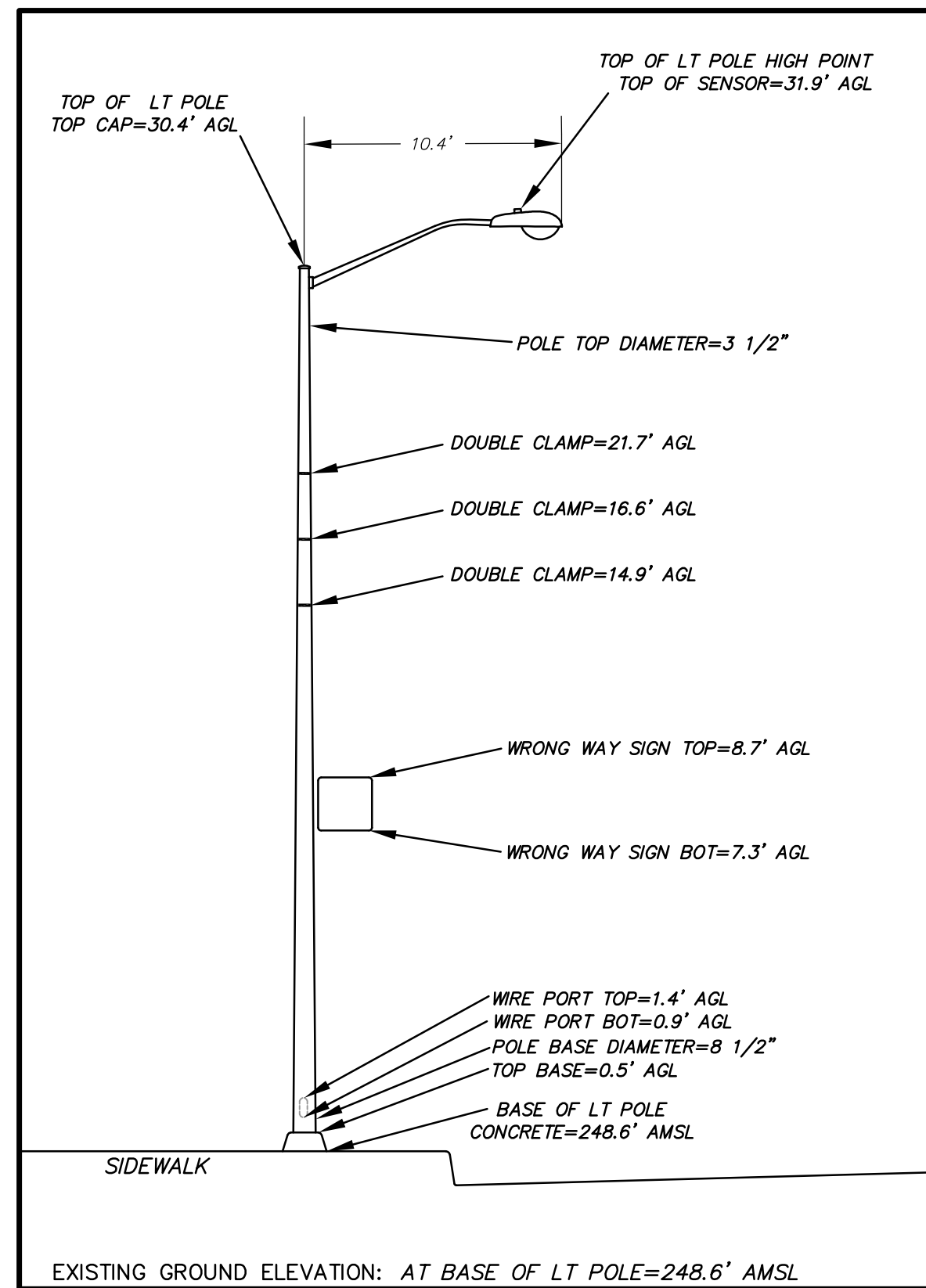
SF Cuper001
10465 S De Anza Blvd, Cupertino, CA
Photosims Produced on 4-2-2018

Existing

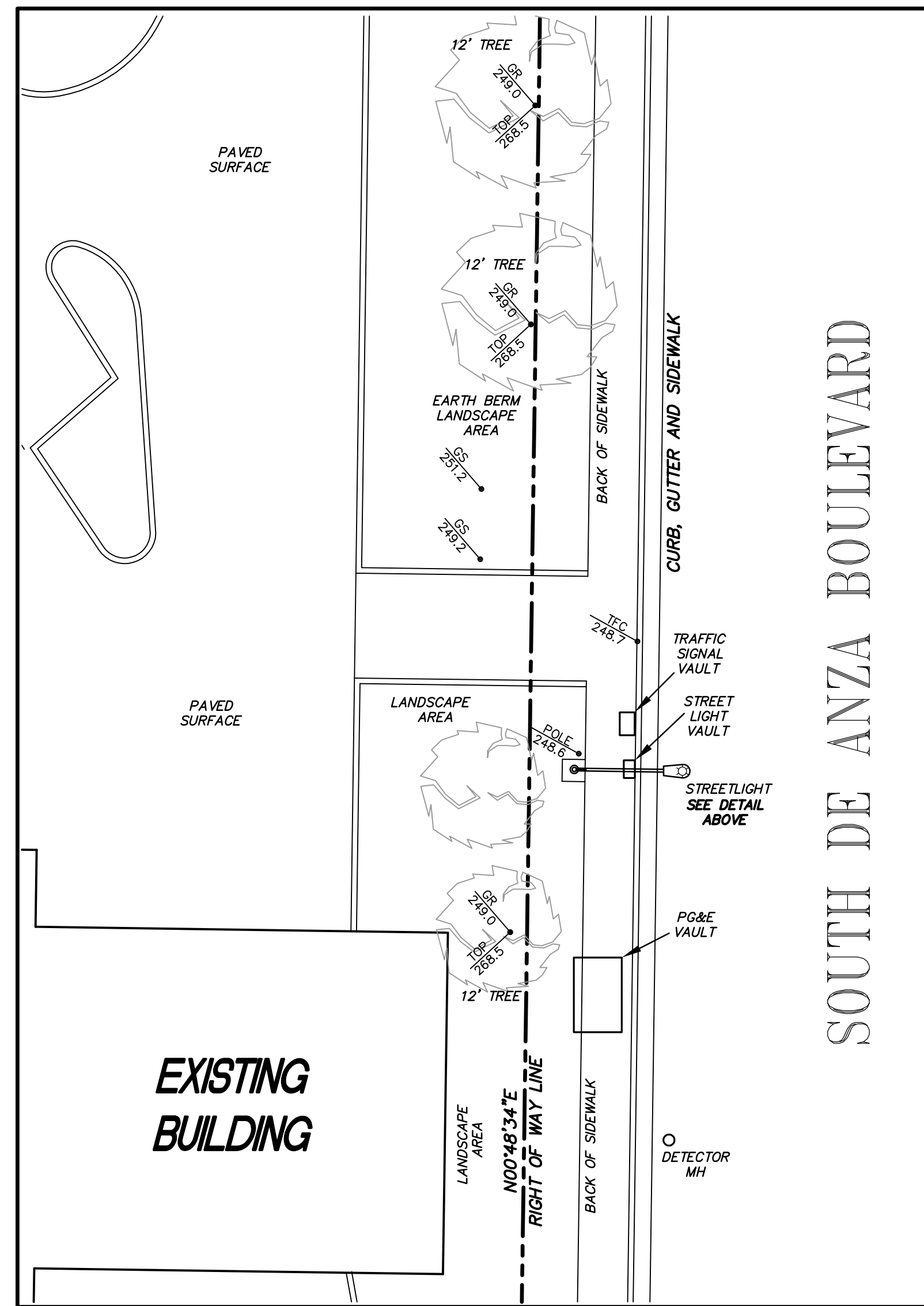


Proposed

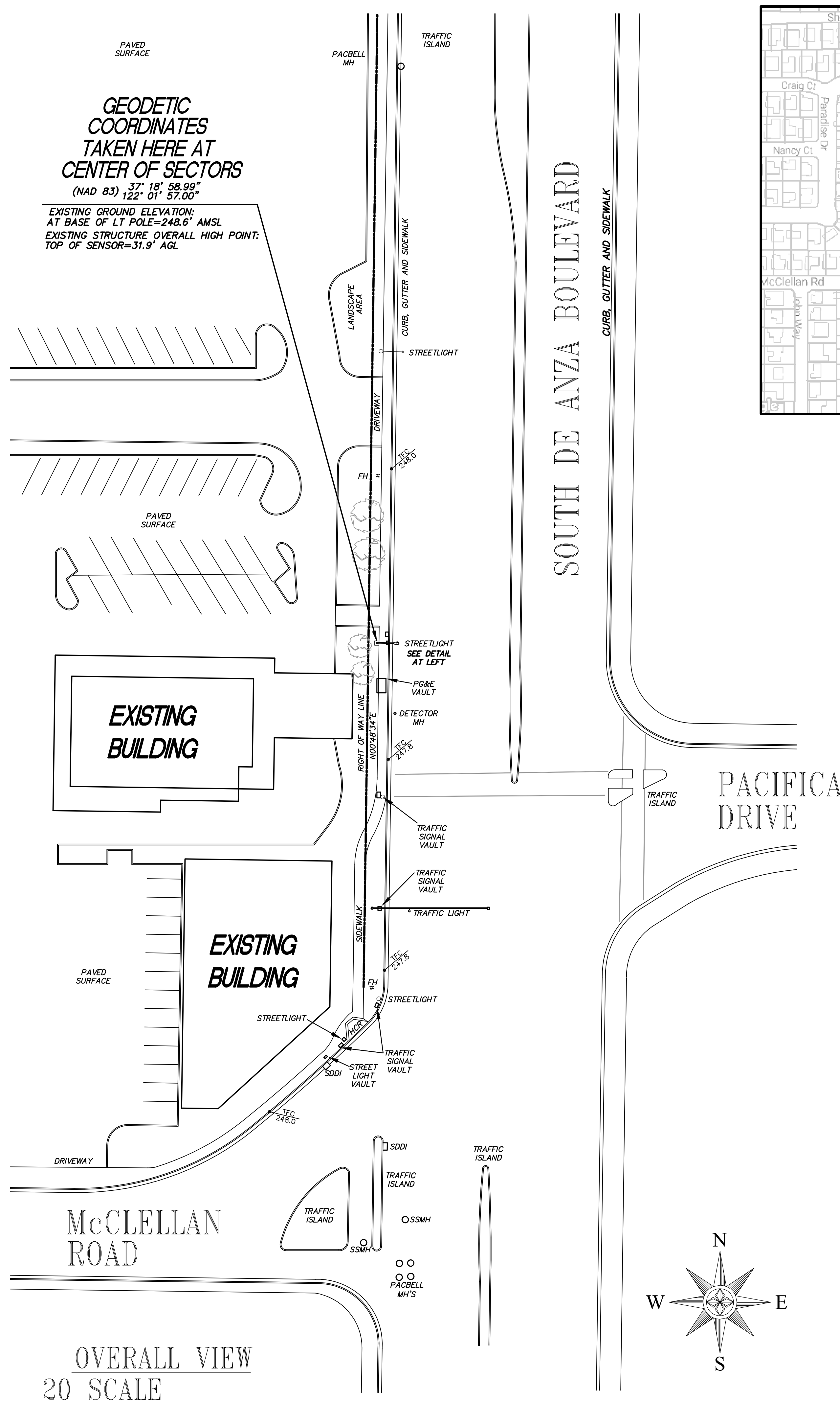




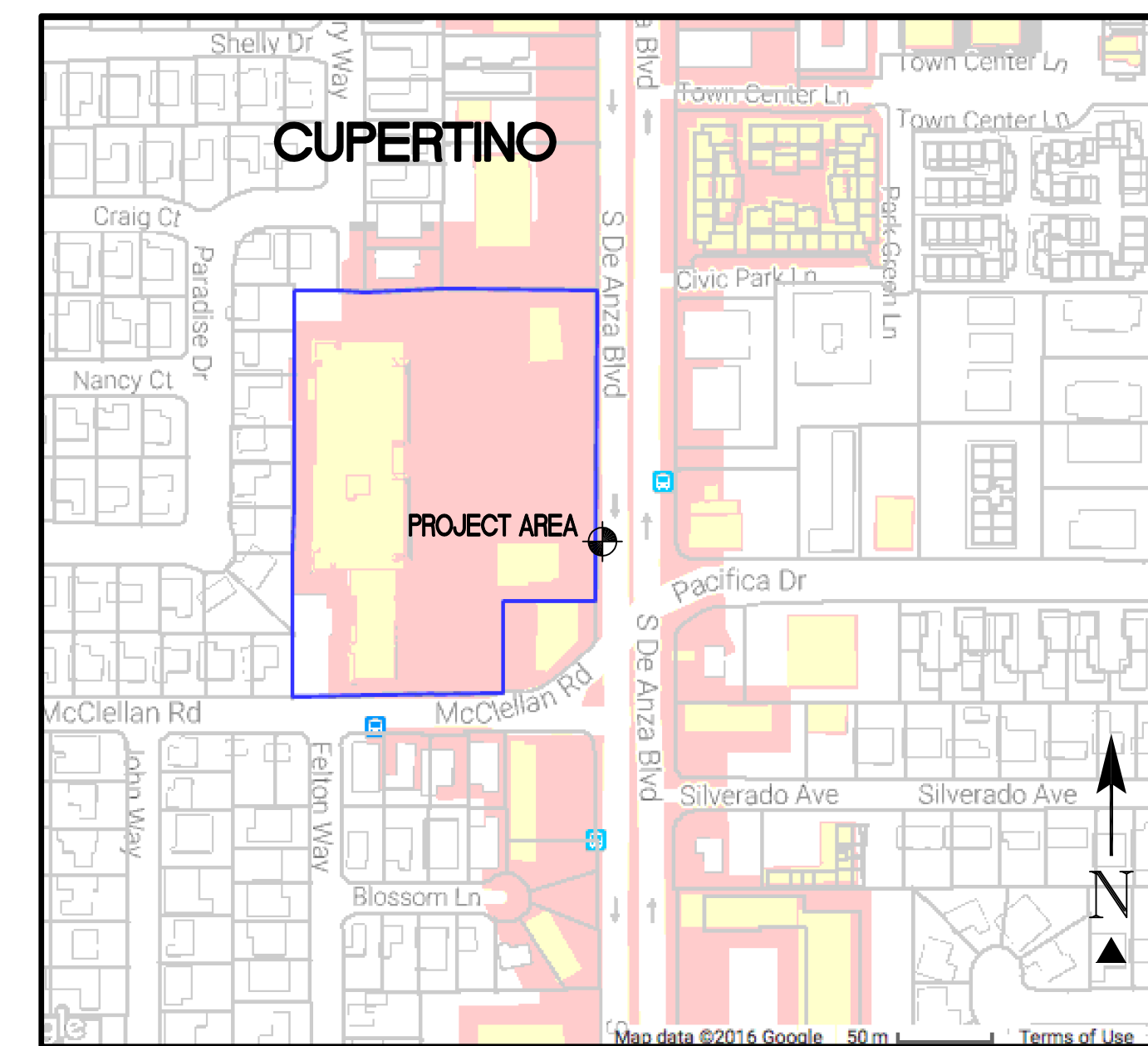
POLE DETAIL
5 SCALE 1" = 5'



PROJECT AREA
10 SCALE



OVERALL VIEW
20 SCALE



VICINITY MAP
N.T.S.

PROPERTY INFORMATION

SF_CUPER001
SITE: CPSC001
10465 SOUTH DE ANZA BOULEVARD
CUPERTINO, CA 95014

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM STATE PLANE COORDINATE ZONE 3, DETERMINED BY GPS OBSERVATIONS.

BENCHMARK

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING GEOID 99 SEPARATIONS, CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.0' (NAVD88)

UTILITY NOTES

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

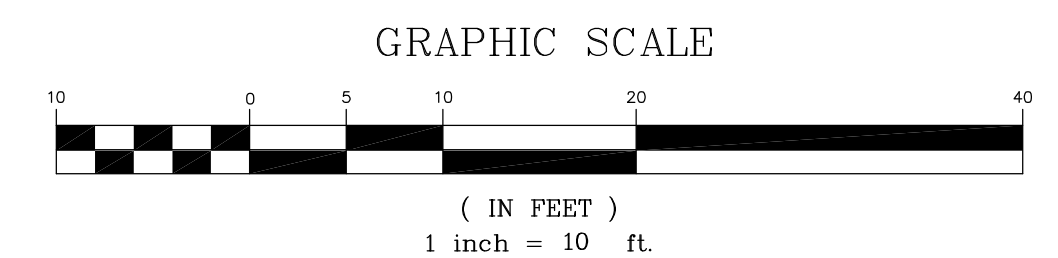
SURVEYOR'S NOTES

ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

LEGEND

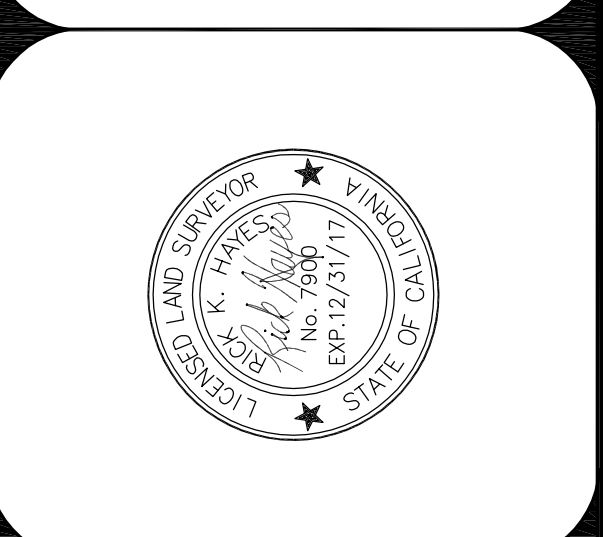
- | | | | |
|-----|------------------------|-----|------------------------|
| DI | DRAIN INLET | ⊗ | WATER CONTROL VALVE |
| TFC | TOP FACE OF CURB | ⊙ | FIRE HYDRANT |
| R/W | RIGHT OF WAY | —●— | GUY CONDUCTOR |
| EP | EDGE OF PAVED DRIVEWAY | ⊕ | FOUND AS NOTED |
| DW | DRIVEWAY | ⊕ | POWER POLE |
| TOP | TOP OF SLOPE | ⊕ | LIGHT POLE |
| SW | SIDEWALK | ⊕ | ELECTRICAL TRANSFORMER |
| TP | TOP OF PARAPET | ⊕ | AIR CONDITIONING UNIT |
| OH | OVERHANG | ⊕ | TELEPHONE PEDESTAL |
| FH | FIRE HYDRANT | ⊕ | TELEPHONE VAULT |
| WV | WATER VALVE | ⊕ | TELEPHONE MANHOLE |
| MH | MANHOLE | ⊕ | GAS VALVE |
| ⊕ | GEODETIC COORDINATES | ⊕ | GAS METER |
| ⊕ | SPOT ELEVATION | —●— | PROPERTY LINE |
| ⊕ | DISH ANTENNA | —●— | CHAIN LINK FENCE |

SURVEY DATE
8/15/16



REV.	DATE	DESCRIPTION
1	8/24/2016	SITE PLAN

HAYES
Land Surveying
And Mapping
2850 MADRIGAN COURT
CONCORD, CA 94518



verizon
2785 MITCHELL DRIVE
WALNUT CREEK, CA. 94598
OFFICE: 925-279-6000
(925) 279-6333

TOPOGRAPHIC SURVEY
EXISTING CONDITIONS
SF_CUPER001
CPSC001
10465 SOUTH DE ANZA BOULEVARD
CUPERTINO, CA 95014

C-1
SHEET 1 of 1

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



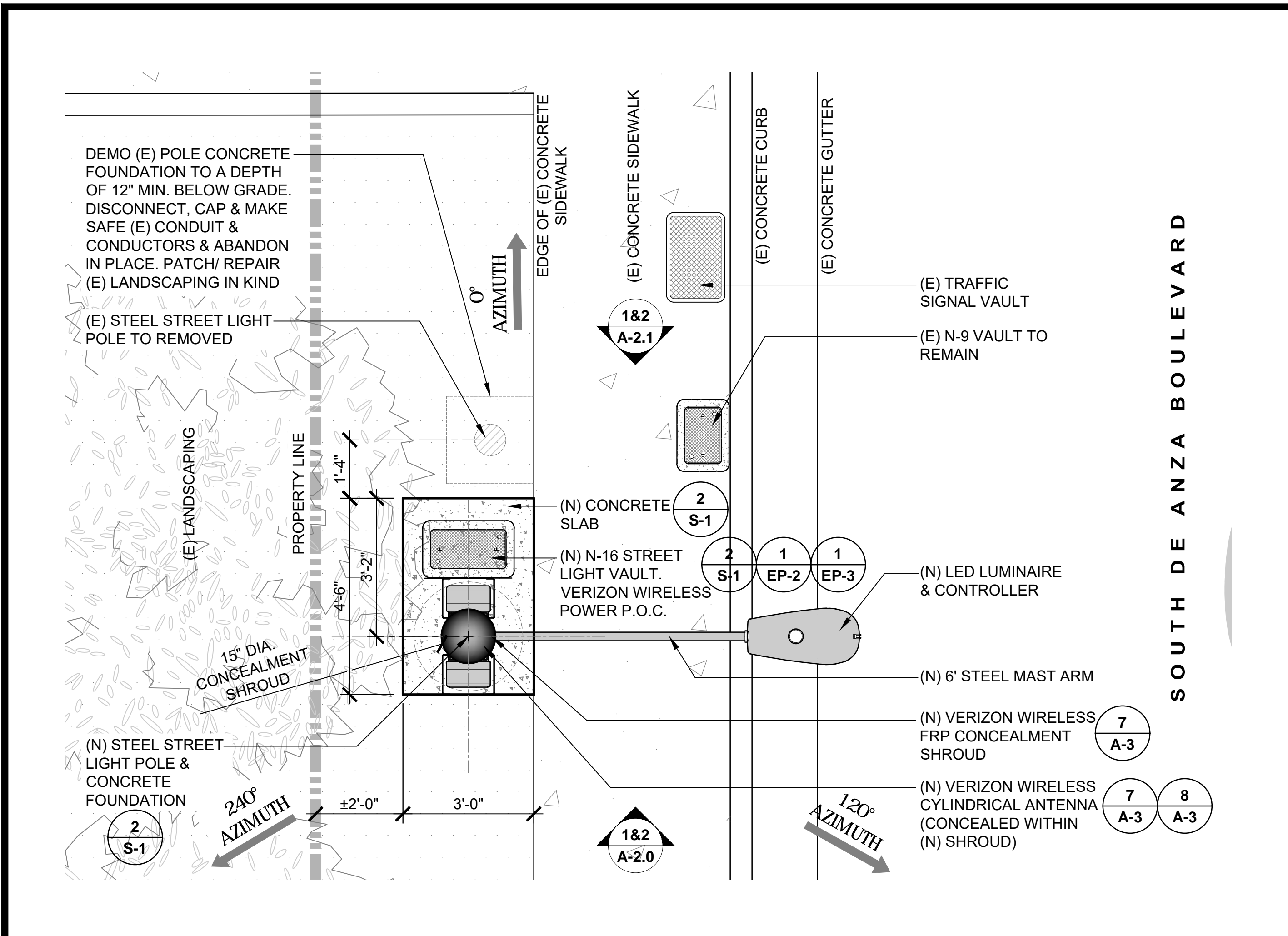
REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE SOLELY WITH RESPECT TO THIS PROJECT. THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN CONSENT. THESE PLANS ARE FORMATTED TO BE FULL-SIZE AT ARCH D 24"x36". COPYRIGHT 2018 JAMES VACCARO ARCHITECT, INC.

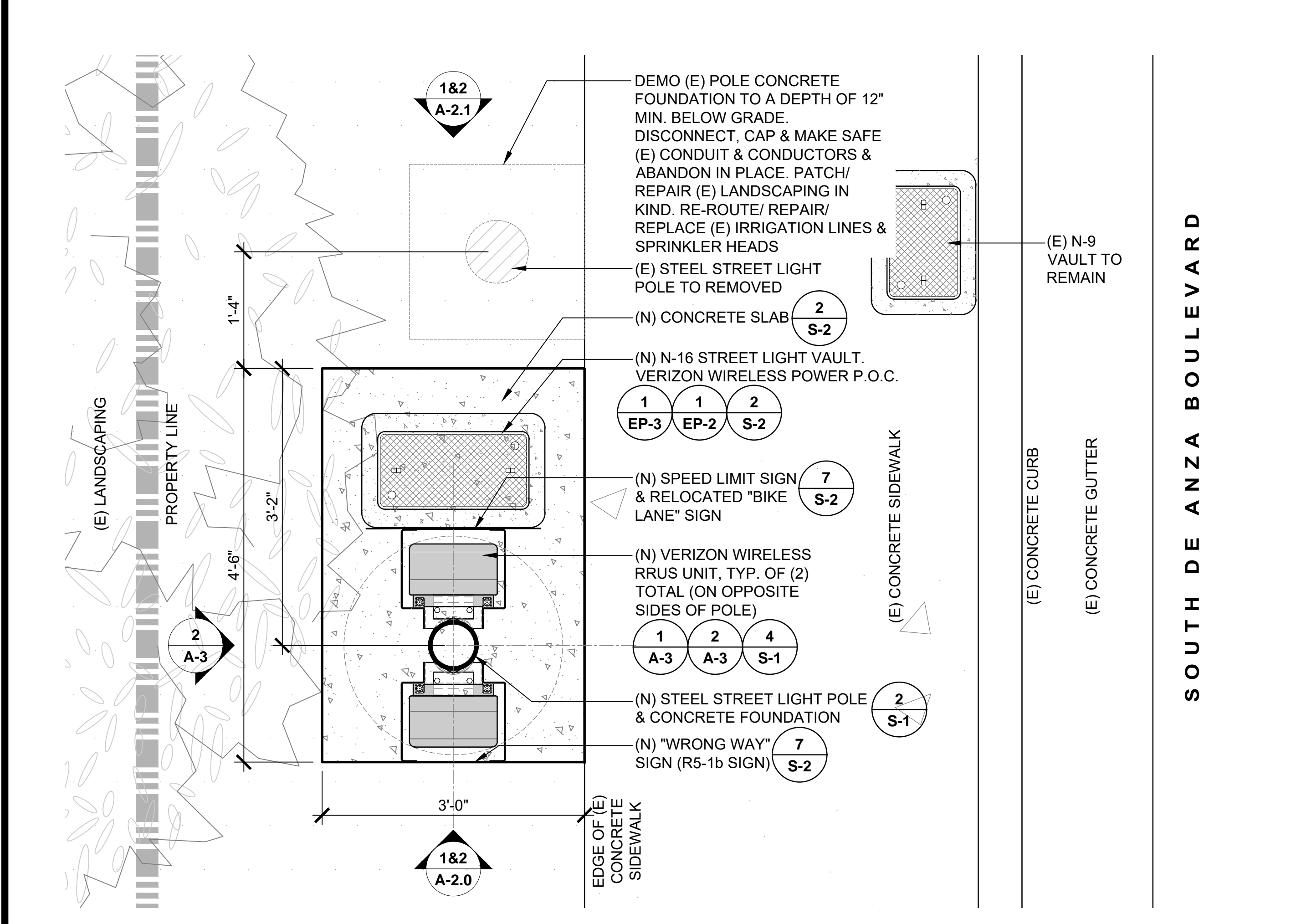
SHEET TITLE
SITE PLAN, ENLARGED ANTENNA LAYOUT, ENLARGED EQUIPMENT LAYOUT

SHEET NUMBER

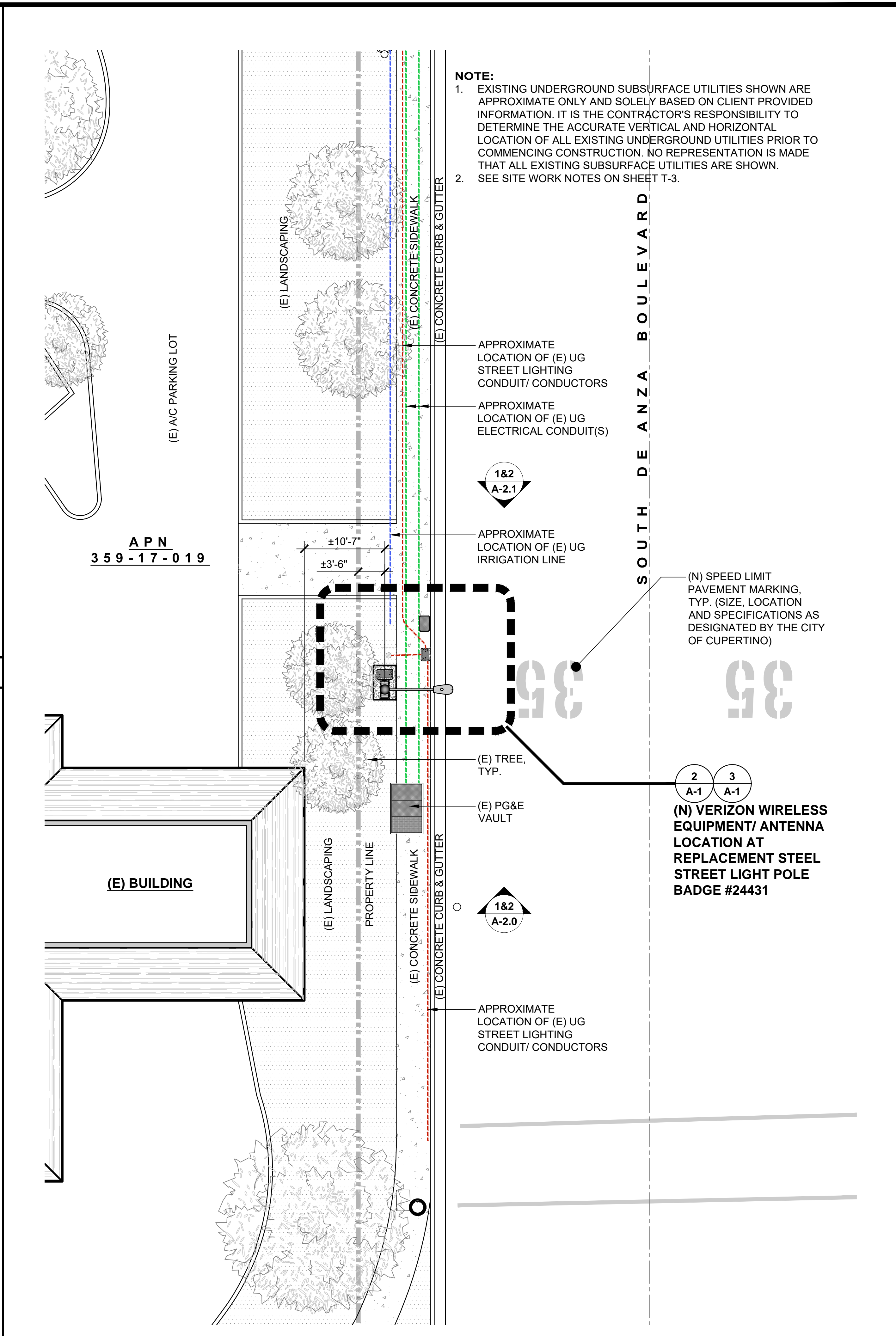
A-1



ENLARGED ANTENNA LAYOUT SCALE: 1/2"=1'-0" 2



ENLARGED EQUIPMENT LAYOUT SCALE: 1"=1'-0" 3



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

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

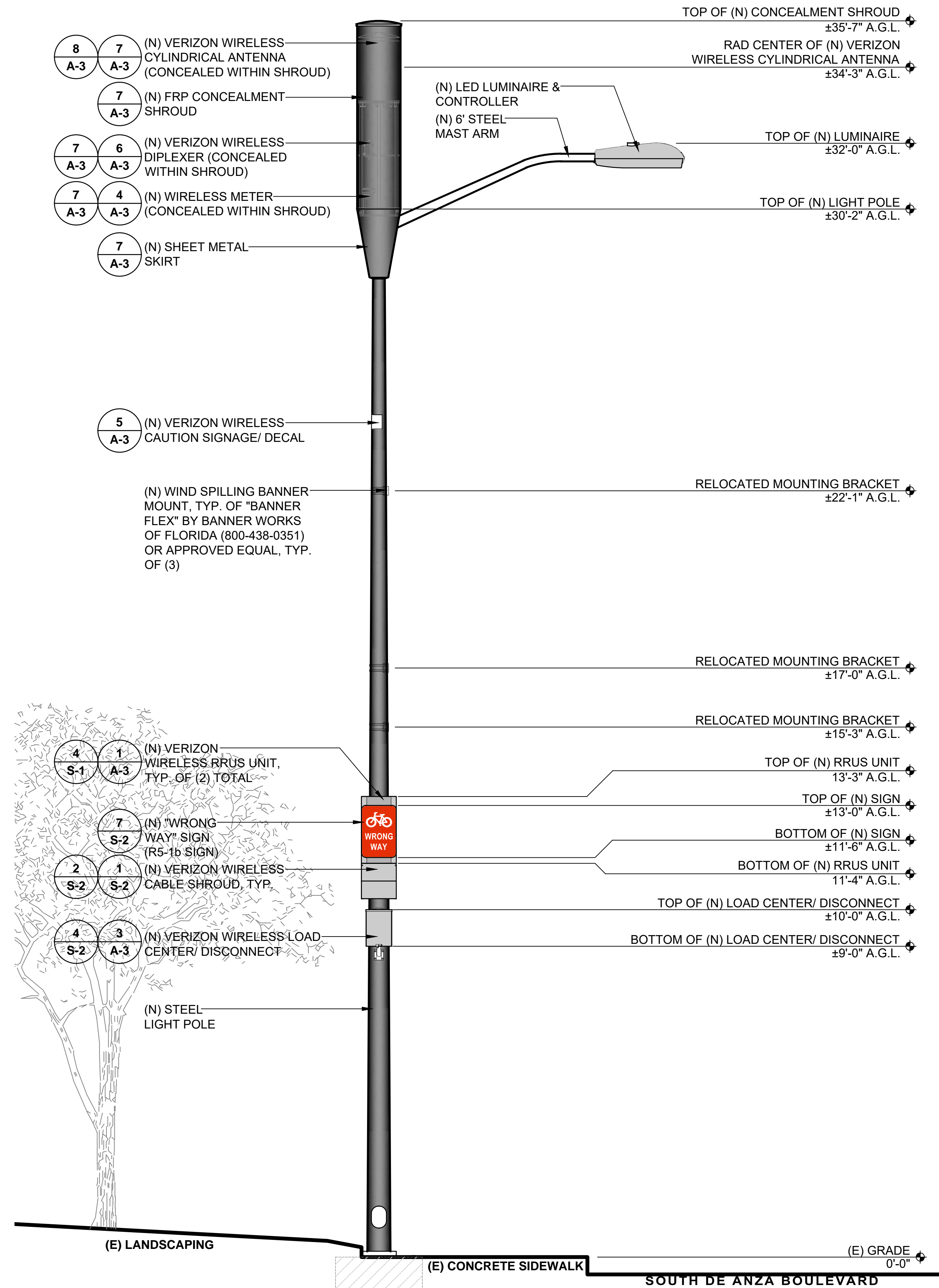
THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE SOLELY WITH RESPECT TO THIS PROJECT. THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN CONSENT. THESE PLANS ARE FORMATTED TO BE FULL-SIZE AT ARCH D 24"x36". COPYRIGHT 2018 JAMES VACCARO ARCHITECT, INC..

SHEET TITLE

ELEVATIONS

SHEET NUMBER

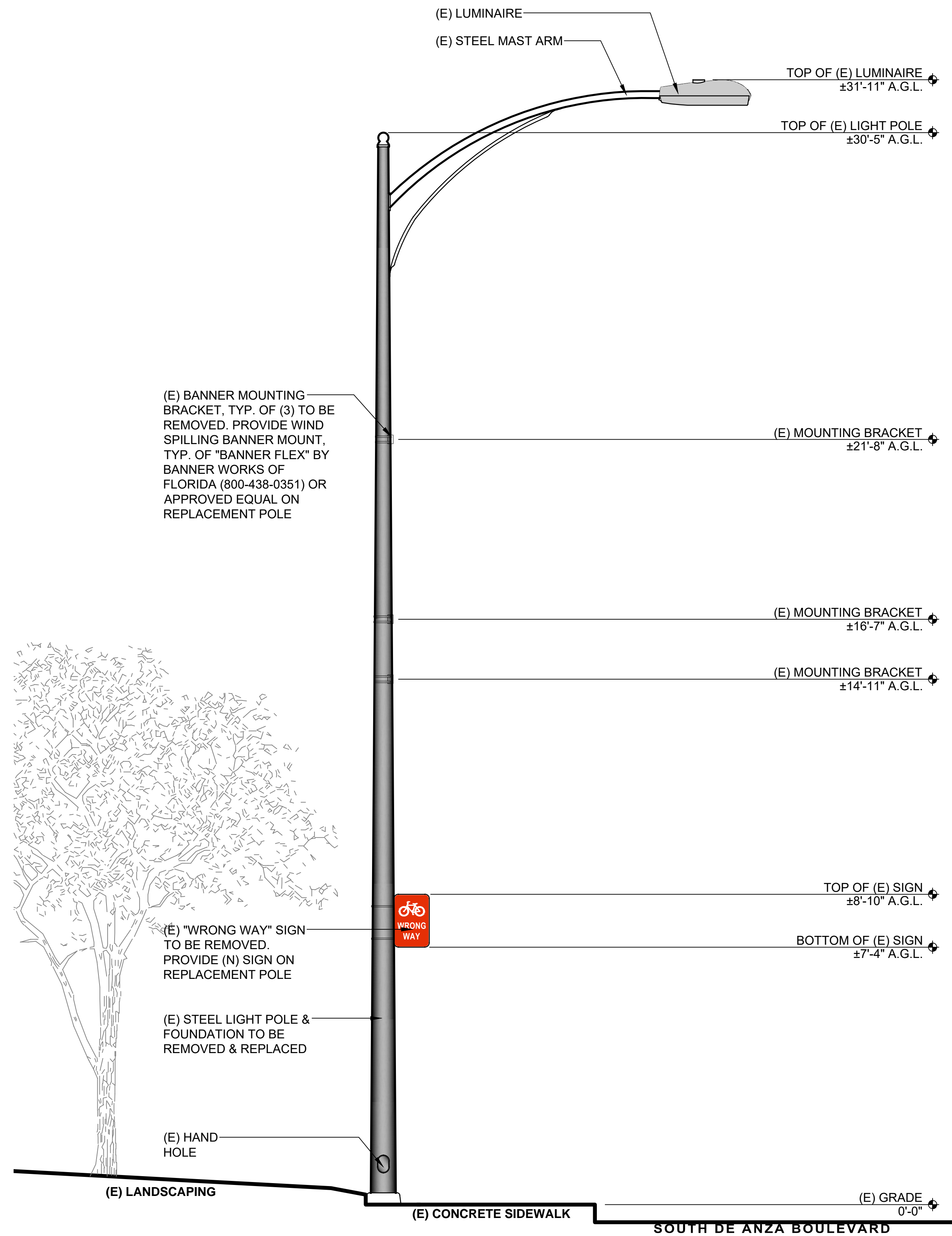
A-2.0



- NOTES:**
1. REPLACEMENT STEEL LIGHT POLE SHALL BE 7 GA. MODIFIED TYPE 15 POLE BY VALMONT INDUSTRIES, INC. WITH SINGLE ARM ASSEMBLY (ARM LENGTH TO MATCH EXISTING).
 2. EXISTING POLE MOUNTED SIGNAGE SHALL BE RELOCATED TO NEW POLE.
 3. REPLACEMENT MAST ARM AND LUMINAIRE SHALL BE ORIENTED PERPENDICULAR TO CENTERLINE OF EXISTING ROADWAY.
 4. DEMO EXISTING EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING POLE FOUNDATION AND PLACEMENT OF NEW FOUNDATION. REPLACE EXISTING SIDEWALK IN KIND.

PROPOSED SOUTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 2



EXISTING SOUTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 1

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

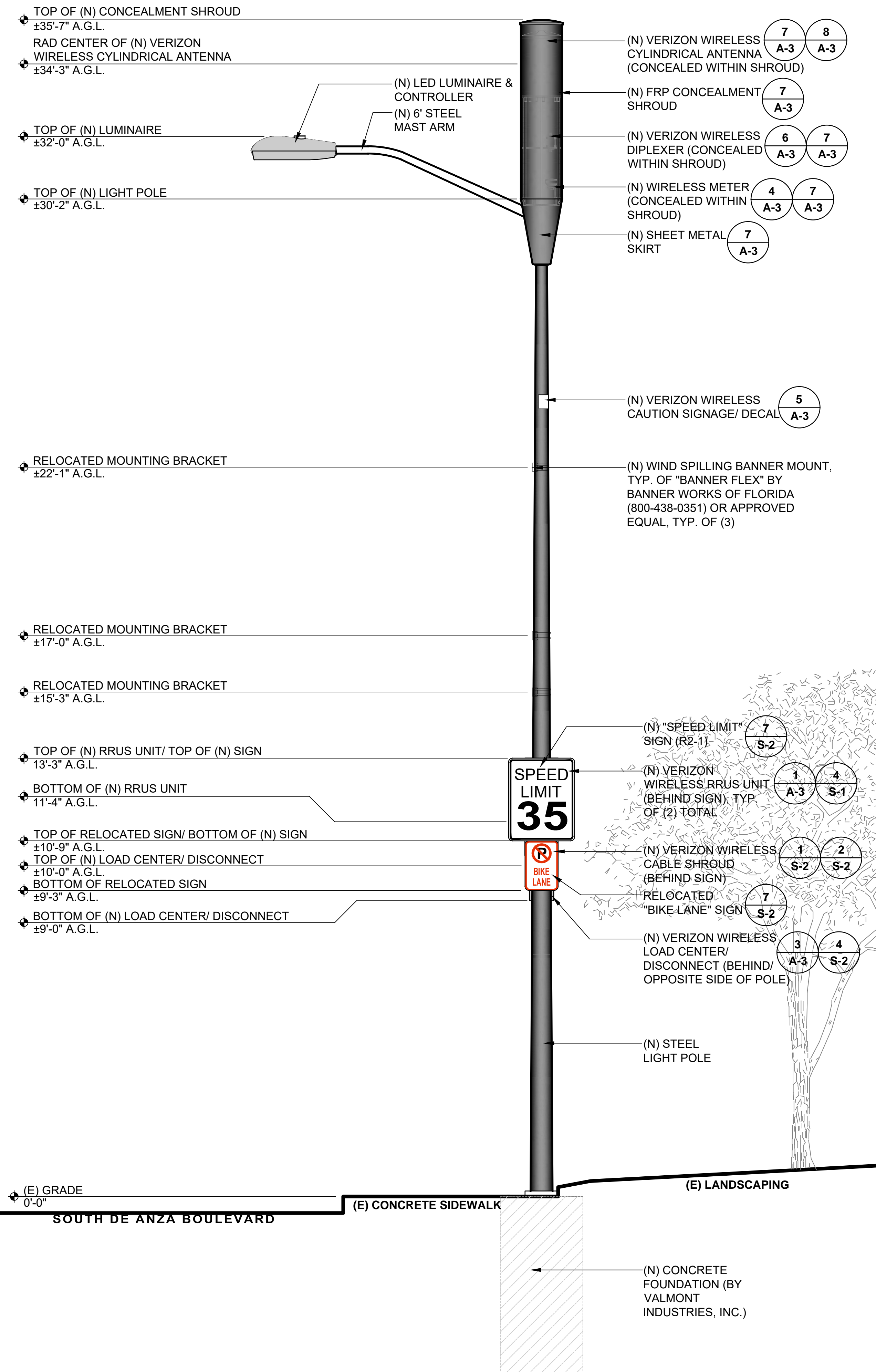
THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE SOLELY WITH RESPECT TO THIS PROJECT. THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN CONSENT. THESE PLANS ARE FORMATTED TO BE FULL-SIZE AT ARCH D 24"x36". COPYRIGHT 2018 JAMES VACCARO ARCHITECT, INC.

SHEET TITLE

ELEVATIONS

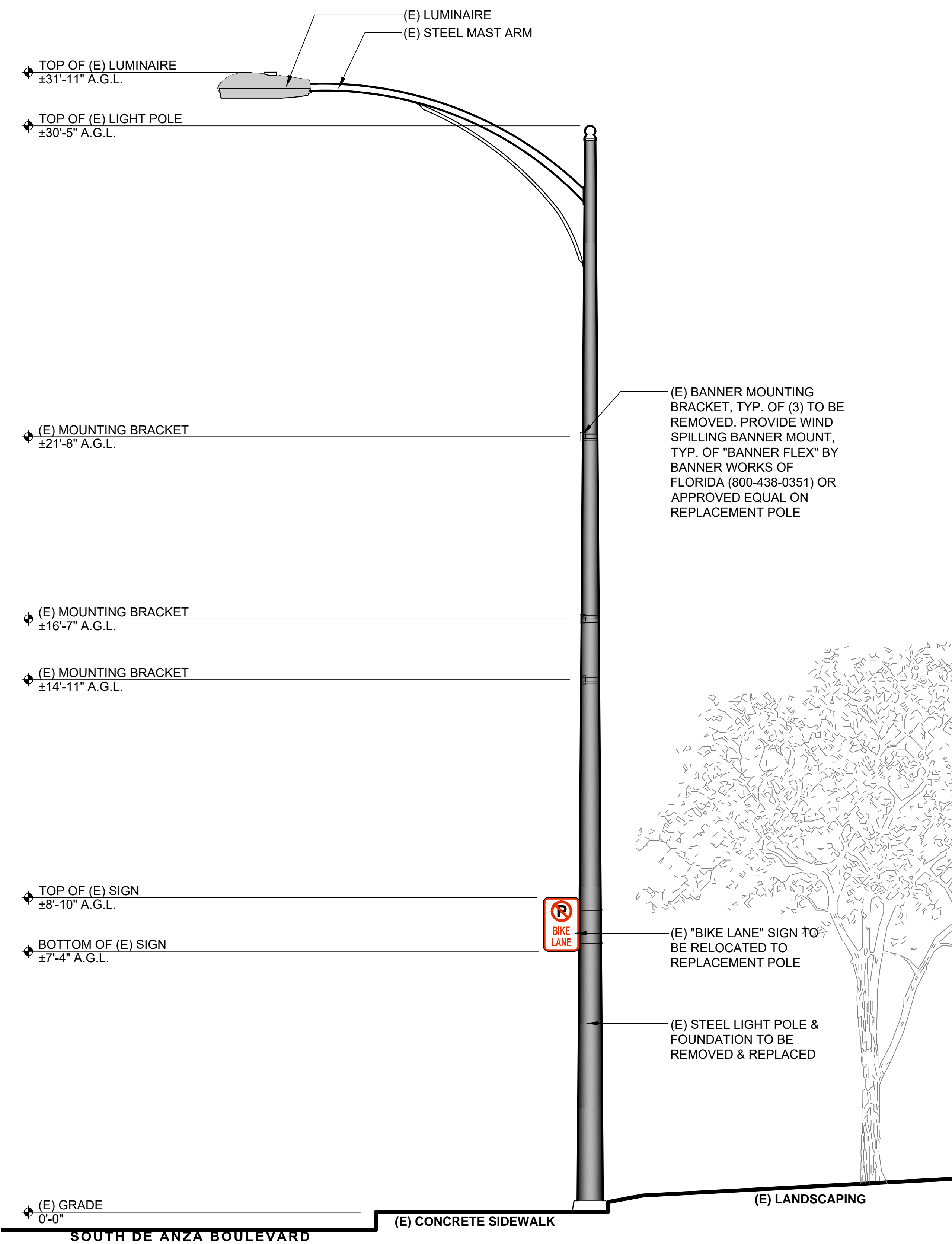
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A-2.1



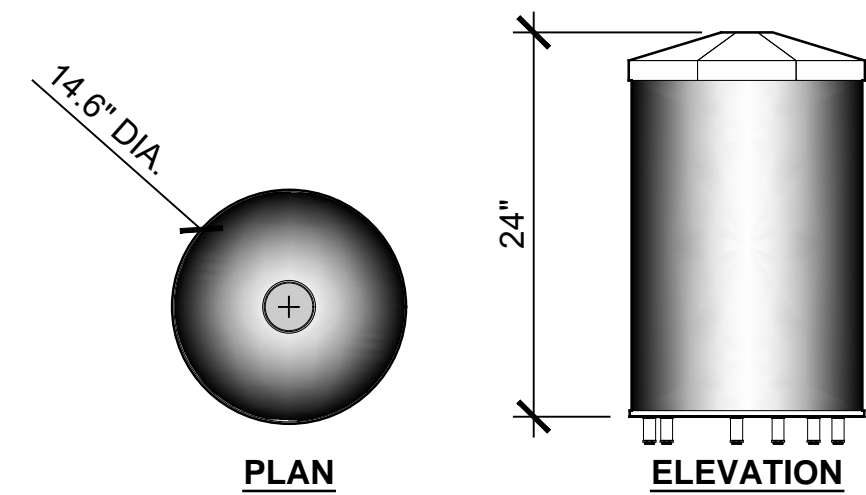
PROPOSED NORTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 2



EXISTING NORTH ELEVATION

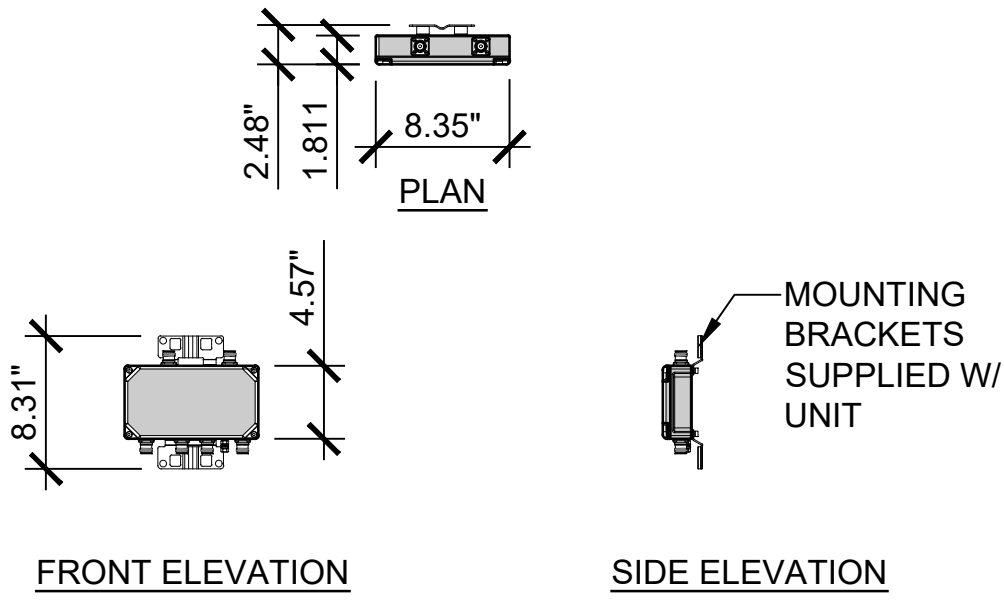
SCALE: 1/2"=1'-0" 1' 2' 4' 1



CYLINDER ANTENNA DIMENSIONS	
DIAMETER	±14.6"
HEIGHT	±24"
CYLINDER ANTENNA WEIGHT	
ANTENNA WEIGHT	±27 LBS.

CYLINDER ANTENNA

SCALE: N.T.S 8

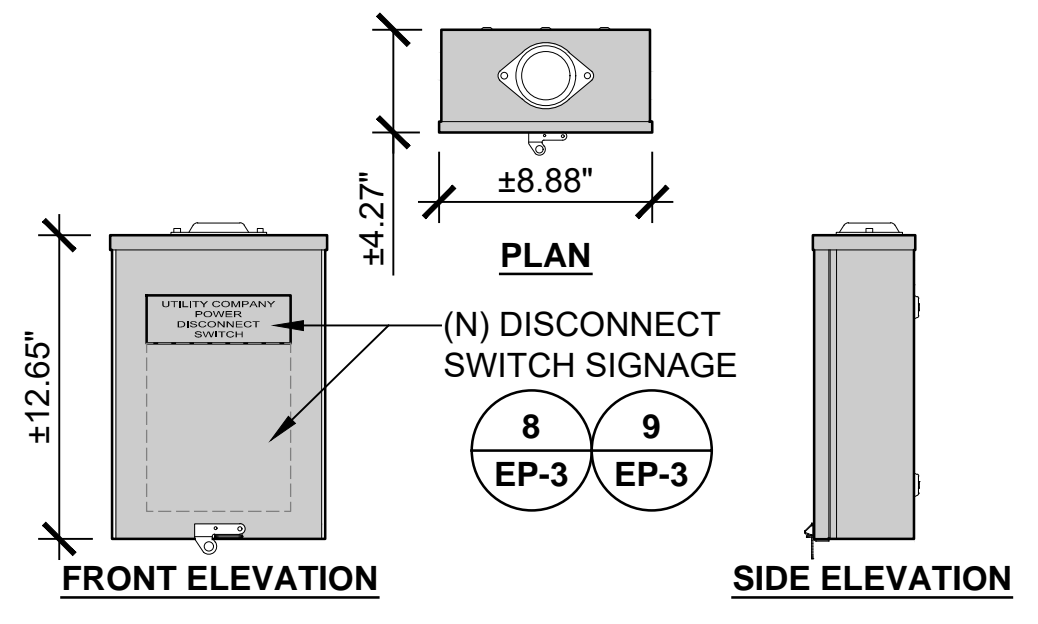


CBC1923T-4310 DIPLEXER DIMENSIONS	
HEIGHT	±4.57"
WIDTH	±8.35"
DEPTH	±2.48"
CBC1923T-4310 DIPLEXER WEIGHT	
DIPLEXER	±5 LBS.

- NOTES:**
1. COMMSCOPE PART# E11F13P06
 2. ALL CONNECTORS SHALL BE WEATHERPROOFED.
 3. INSTALL IN STRICT ACCORDANCE WITH COMMSCOPE INSTALLATION MANUAL.

DIPLEXER

SCALE: N.T.S 6

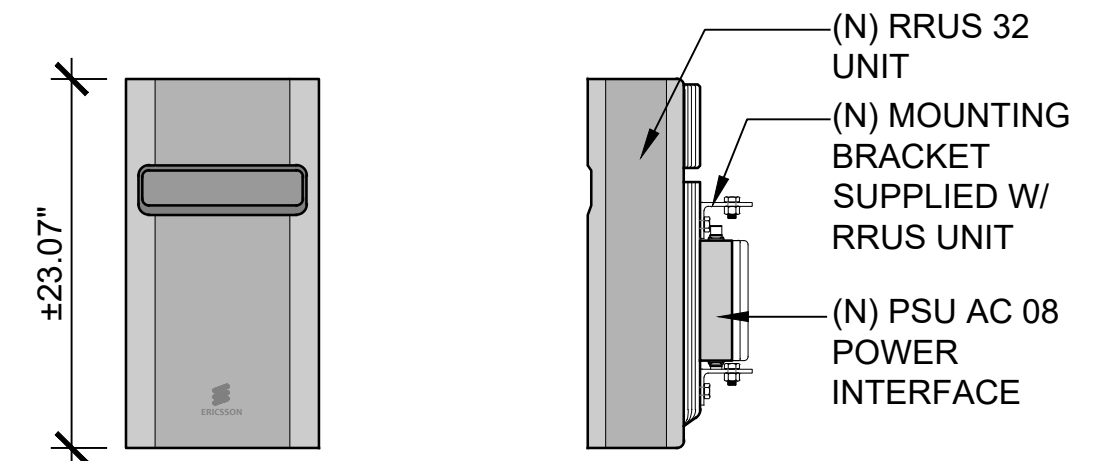
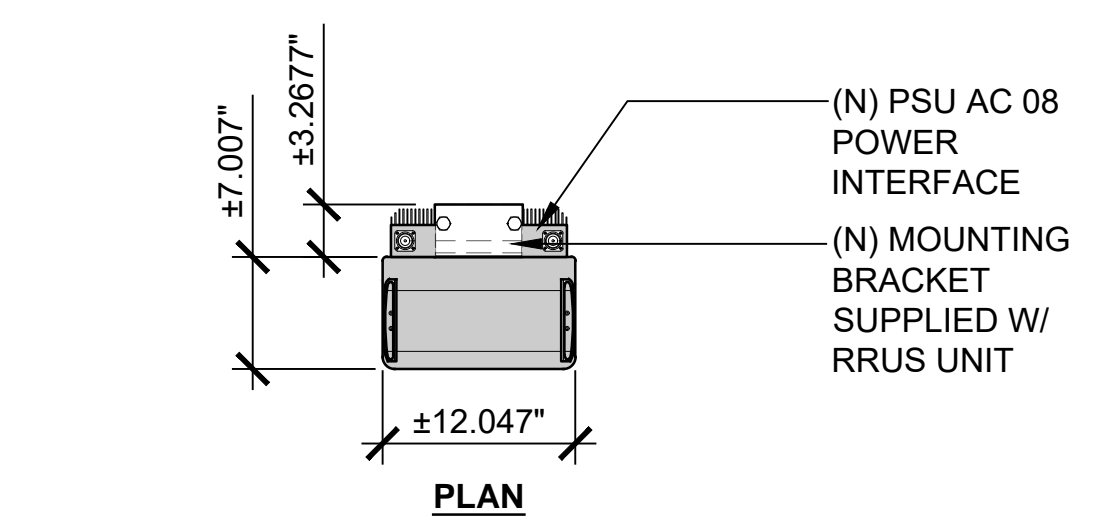


SQUARE D Q0612L100RB LOAD CENTER DIMENSIONS	
HEIGHT	±12.65"
WIDTH	±8.88"
DEPTH	±4.27"
SQUARE D Q0612L100RB LOAD CENTER WEIGHT	
WEIGHT	±10 LBS.

- NOTES:**
1. SQUARE D PART# Q0612L100RB.
 2. NEMA 3R OUTDOOR RATED, 100 A, 120/240 VOLT, 1 PHASE LOAD CENTER.
 3. INSTALL IN STRICT ACCORDANCE WITH SQUARE D/ SCHNEIDER ELECTRIC INSTALLATION MANUAL.

DIST. PANEL/ DISCONNECT

SCALE: N.T.S 3

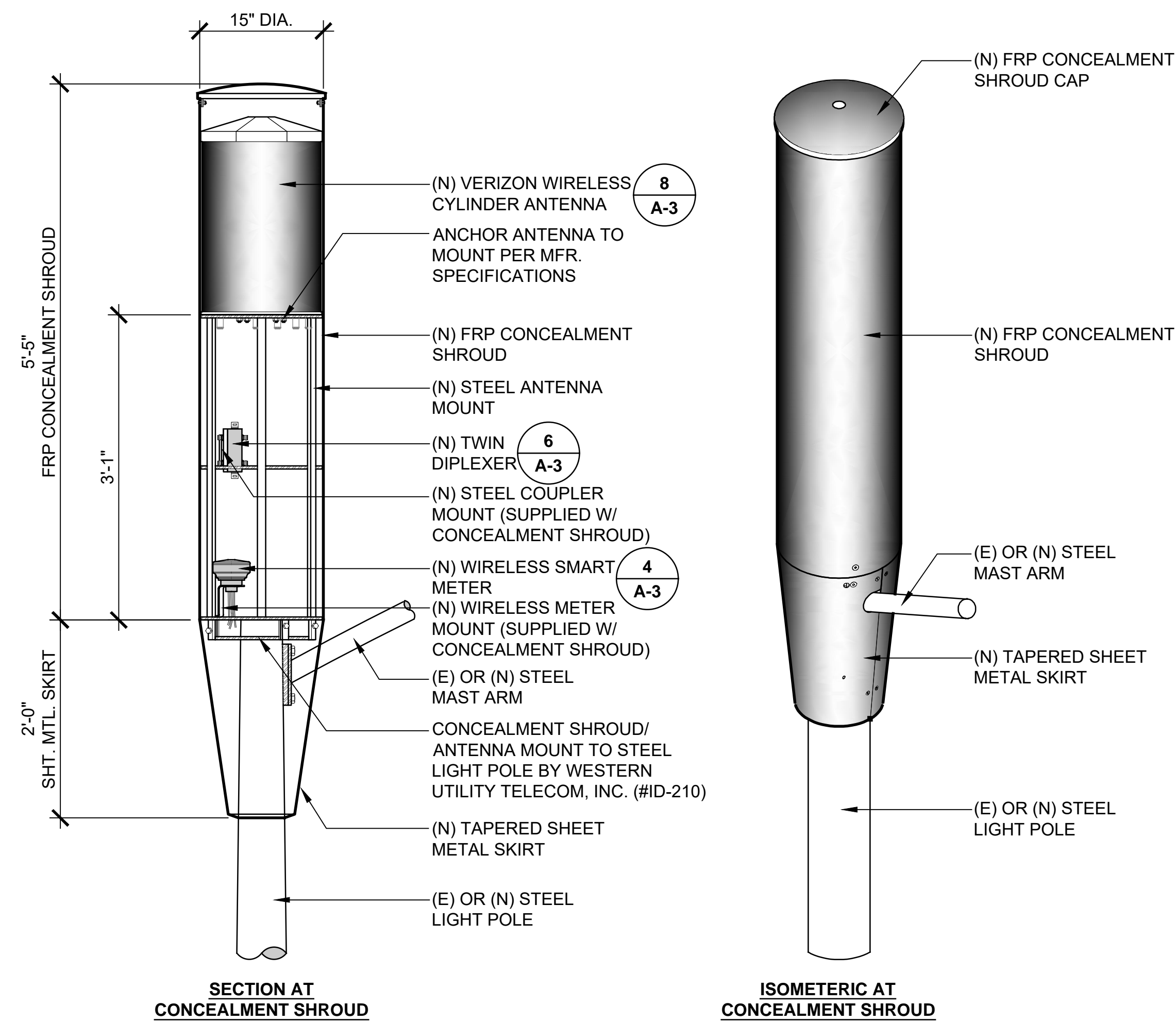


RRUS 32 UNIT DIMENSIONS	
HEIGHT W/ HANDLES	±27.165"
HEIGHT W/O HANDLES	±23.07"
WIDTH	±12.047"
DEPTH	±7.007"
RRUS 32 UNIT WEIGHT	
UNIT W/ PSU AC 08	±65 LBS.
RRUS 32 UNIT CLEARANCE REQUIREMENTS	
ABOVE/ BELOW	16" MIN.

- NOTES:**
1. ERICSSON PART# RRUS 32
 2. ALL CONNECTORS SHALL BE WEATHERPROOFED.
 3. INSTALL IN STRICT ACCORDANCE WITH ERICSSON INSTALLATION MANUAL.
 4. PAINT SOLAR SHIELD & ALL MOUNTING COMPONENTS TO MATCH POLE.
 5. RRUS HANDLES TO BE REMOVED PRIOR TO INSTALLATION.

RRUS 32 UNIT

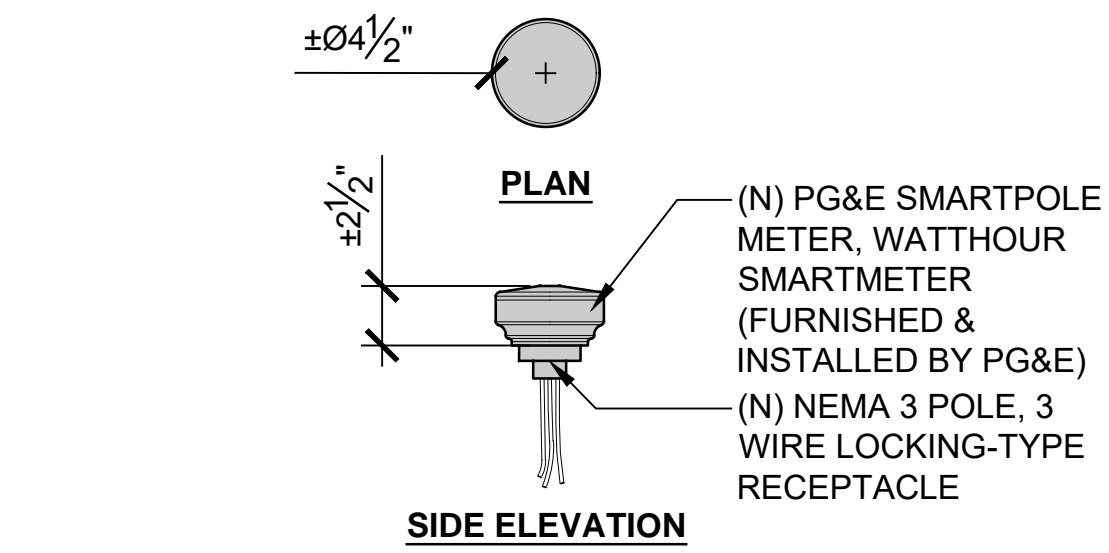
SCALE: N.T.S 1



- NOTES:**
1. NEW FRP CONCEALMENT SHROUD, GALVANIZED SHEET METAL SKIRT, ANTENNA/ LIGHT POLE MOUNT AND MOUNTING COMPONENTS BY WESTERN UTILITY/ TELECOM, INC. (PHONE: 503-587-0101) (ID#210).
 2. FRP CONCEALMENT SHROUD MOUNT TO LIGHT POLE BY WESTERN UTILITY/ TELECOM, INC.
 3. PAINT NEW FRP SHROUD AND EXPOSED MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 4. POWDER COAT NEW GALVANIZED SHEET METAL SKIRT AND EXPOSED MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 5. GROUND NEW ANTENNA PER MANUFACTURER'S SPECIFICATIONS.

CONCEALMENT SHROUD

SCALE: N.T.S 7

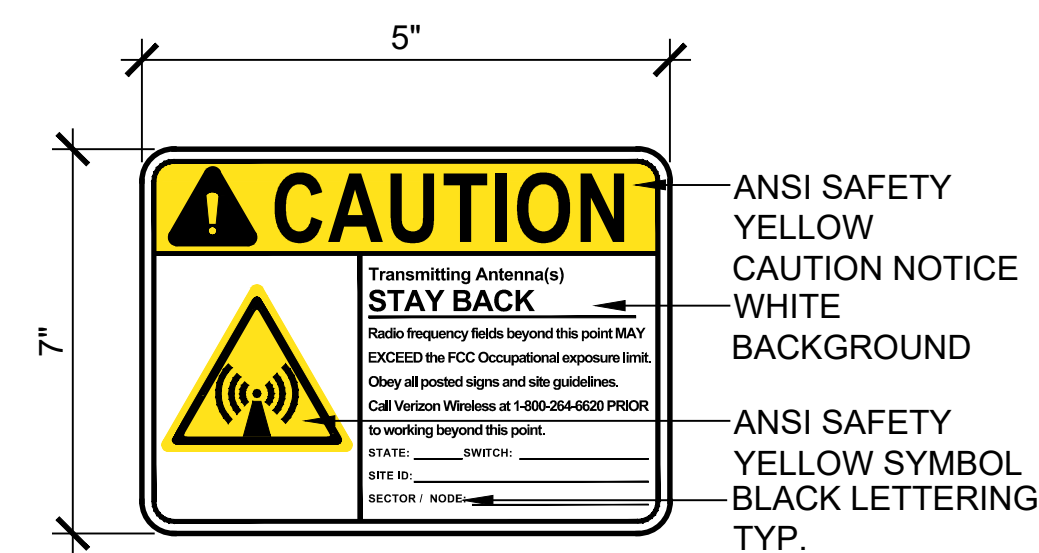


PG&E SMARTPOLE METER DIMENSIONS	
DIAMETER	±4.5"
HEIGHT	±2.5"
PG&E SMARTPOLE METER WEIGHT	
WEIGHT	±3 LBS.

- NOTES:**
1. PG&E CODE# M241490.
 2. PG&E TO PERFORM RF SIGNAL TEST.
 3. INSTALL IN STRICT ACCORDANCE WITH PG&E UTILITY BULLETIN FOR SMARTPOLE METER SERVICE.

WIRELESS METER

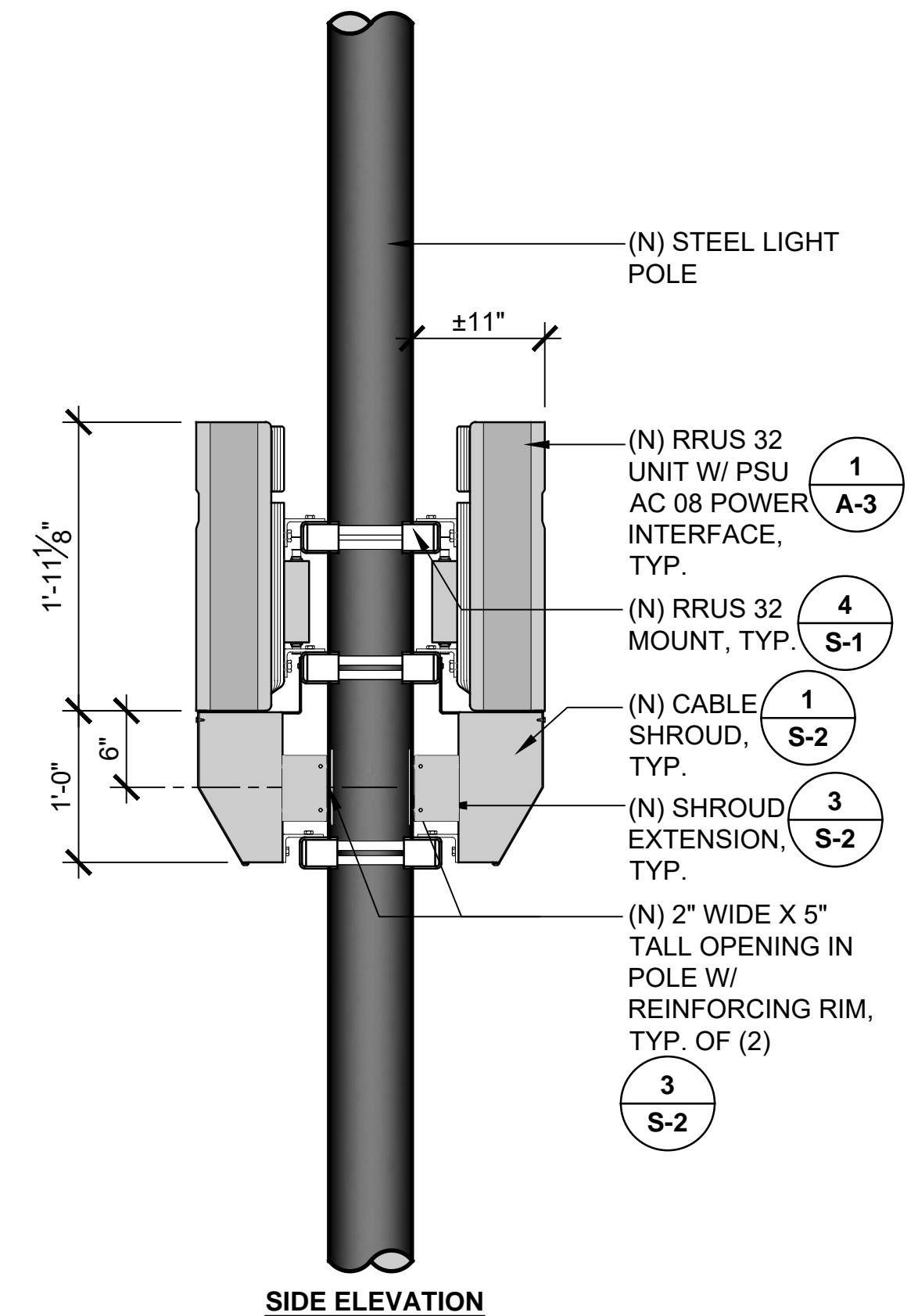
SCALE: N.T.S 4



- NOTES:**
1. OUTDOOR RATED SELF ADHESIVE VINYL DECAL WITH UV, CHEMICAL, ABRASION AND MOISTURE RESISTANCE.
 2. POST SIGN/ DECAL 9'-0" BELOW BOTTOM OF NEW ANTENNA.
 3. CONTRACTOR TO CONFIRM SPECIFIC SIGN REQUIREMENTS WITH VERIZON WIRELESS, THE CITY OF CUPERTINO, FCC AND AUTHORITIES HAVING JURISDICTION PRIOR TO FABRICATION.
 4. SIGN SHALL LIST/ DISPLAY OWNERSHIP COMPANY'S NAME, CONTACT NUMBER AND SPECIFIC SITE IDENTIFICATION.
 5. SIGN COLORS, SYMBOLS AND LAYOUT SHALL CONFORM TO ANSI Z535.1, ANSI Z535.2 AND ANSI C95.2-2007.

SIGNAGE/ DECAL

SCALE: N.T.S 5



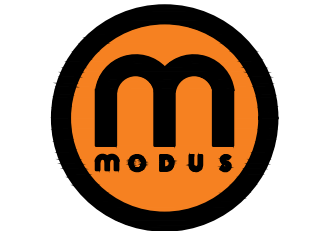
- NOTES:**
1. PRIME AND PAINT RRUS 32 UNITS, CABLE SHROUDS, TUBE ASSEMBLY AND MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 2. SEE SPECIFICATIONS SECTION 09 00 00 FOR PAINTING AND COATING SPECIFICATIONS.

RRUS UNIT MOUNT ELEV.

SCALE: N.T.S 2

411 DONDEE WAY, UNIT C
PACIFICA CA 194044
415.608.3670 PHONE | 415.963.4471 FAX
INFO@JVARCHITECT.COM
WWW.JVARCHITECT.COM

CLIENT



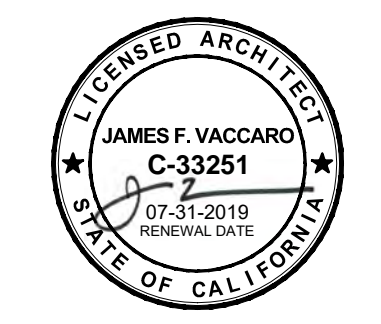
MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE SOLELY WITH RESPECT TO THIS PROJECT. THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN CONSENT. THESE PLANS ARE FORMATTED TO BE FULL-SIZE AT ARCH D 24"X36". COPYRIGHT 2016 JAMES VACCARO ARCHITECT, INC.

SHEET TITLE

DETAILS

SHEET NUMBER

A-3

June 22, 2018
2018170

Modus Inc.
240 Stockton Street, 3rd Floor
San Francisco, CA 94108

Attention: Zachary Mann

Subject: Special Inspections and Materials Testing – **Final Report**
Verizon – Light Pole
SF_CUPER001
Adjacent to 10465 S. De Anza Boulevard
Cupertino, CA
Permit # P2018-00231

Gentlemen:

In accordance with Section 1704.2.4 of the California Building Code and as specified in the structural contract drawings, Biggs Cardosa Associates, Inc. has performed the following special inspections.

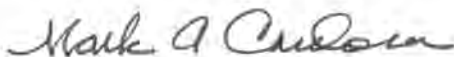
- Shop welding of structural steel

The completed inspections were performed under the supervision of the undersigned Registered Engineer. Based both upon inspections performed and our substantiating reports, it is our professional judgement that, to the best of our knowledge, the inspected work was performed in accordance with the applicable workmanship provisions of the California Building Code and the approved plans and specifications.

Should you have any questions, please do not hesitate to call.

Sincerely,

BIGGS CARDOSA
ASSOCIATES, INC.



Mark A. Cardosa
Vice President



cc: Building Division, City of Cupertino



INSPECTIONS, Inc.

CONSTRUCTION INSPECTION SPECIALISTS
690 SUNOL ST., BLDG. H • SAN JOSE, CA 95126
(408) 288-8460

DSA File # _____
DSA Appl. # _____
OSHPD # _____

SPECIAL INSPECTOR DAILY REPORT

City of: Cupertino
Project Name: Verizon #1
Address: 10465 S. De Anza Blvd

Date/Day: Mon 6/16/18
Project No.: _____
Permit No.: 2018-00231

Inspection Coverage: Concrete Post Tension Concrete Welding
 Continuous Masonry Fire Proofing Shop
 Periodic Reinforcing Steel Other Field

Inspections Made: Verified Welders Qualifications (1) Nuerz - 0082
FRAW process with E717-11 electrode
Joint prep, fitup, preheat & WPS'S
Inspected SPF welds of reinforcing
rim to light pole


Tests Made: Visual

Items Requiring Correction, Corrections of Previously Listed Items, Previously Listed Uncorrected Items: 0

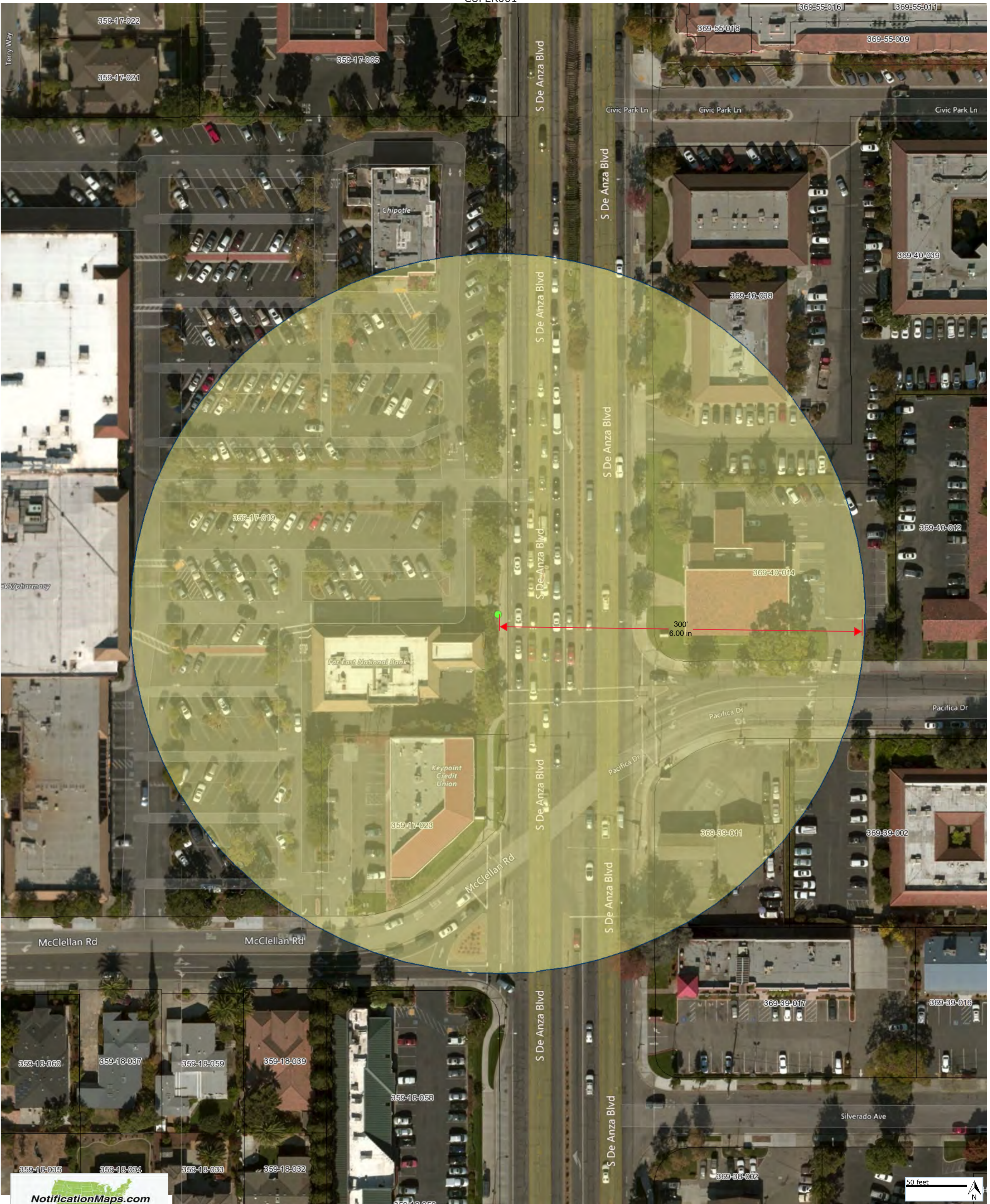
Changes to Approved Plans Authorized by Architect or Engineer: 0

Comments: Satisfactory per SE plans Δ3 3/26/18
3/5-2 and AWS D1.1

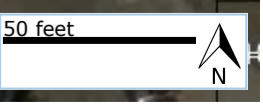
To the best of my knowledge, work inspected was in accordance with the building department approved design drawings, specifications and applicable workmanship provisions of the C.B.C except as noted above.

Signed: Mark Cotter  Mark Cotter
Print Full Name: Mark Cotter CWI 13052251 Certification Date: 5/19
QC1 EXP. 5/1/2019 Certification Number: 13052251

300' RADIUS MAP
CUPER001



NotificationMaps.com
Radius Maps Owner and Occupant Lists Mailing Services
866.752.6266 toll free
949.613.8341 fax
sales@notificationmaps.com
www.notificationmaps.com
Mailing Address Only:
668 N Coast Hwy #401
Laguna Beach, CA 92651



APN	TYPE	NAME	ADDRESS	CITY	STATE	ZIP
359-17-019	OWNER	BDC HAYWARD LP	1556 PARKSIDE DR	WALNUT CREEK	CA	94596
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10385 S DE ANZA BLVD	CUPERTINO	CA	95014-3009
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10425 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10465 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10455 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10457 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10467 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10475 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10477 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10477 B S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10487 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10493 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-023	OWNER	BDC ATWATER SHOPS LP	1556 PARKSIDE DR	WALNUT CREEK	CA	94596-3556
359-17-023	BUSINESS OWNER	BUSINESS OWNER	10497 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-023	BUSINESS OWNER	BUSINESS OWNER	10495 S DE ANZA BLVD STE A	CUPERTINO	CA	95014-3034
359-17-023	BUSINESS OWNER	BUSINESS OWNER	10495 S DE ANZA BLVD STE C	CUPERTINO	CA	95014-3034
369-39-002	OWNER	PETRI GEORGENE	34 W SANTA CLARA ST	SAN JOSE	CA	95113-1806
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE B	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE F	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE C	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE A	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE E1	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE E2	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE G	CUPERTINO	CA	95014-3015
369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE D	CUPERTINO	CA	95014-3015
369-39-017	OWNER	HARMAN-MANAGERS INVESTMENT INC	5544 S GREEN ST	SALT LAKE CITY	UT	84123-5798
369-39-017	BUSINESS OWNER	BUSINESS OWNER	10520 S DE ANZA BLVD STE B	CUPERTINO	CA	95014-3036
369-39-017	BUSINESS OWNER	BUSINESS OWNER	10520 S DE ANZA BLVD STE A	CUPERTINO	CA	95014-3036
369-39-017	BUSINESS OWNER	BUSINESS OWNER	10520 S DE ANZA BLVD FRNT	CUPERTINO	CA	95014-3036
369-39-041	OWNER	LIAONING BENEFIT PETROLEUM US CORPORATION	1625 THE ALAMEDA STE 202	SAN JOSE	CA	95126-2223
369-39-041	BUSINESS OWNER	BUSINESS OWNER	10490 S DE ANZA BLVD	CUPERTINO	CA	95014-3020
369-40-014	OWNER	BANK CATHAY	77 N BROADWAY	LOS ANGELES	CA	90012
369-40-014	BUSINESS OWNER	BUSINESS OWNER	10480 S DE ANZA BLVD	CUPERTINO	CA	95014-3012
369-40-038	OWNER	WU YE MING	20710 SCOFIELD DR	CUPERTINO	CA	95014-2962
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10420 S DE ANZA BLVD	CUPERTINO	CA	95014-3012
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10440 S DE ANZA BLVD STE D4	CUPERTINO	CA	95014-3018
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10440 S DE ANZA BLVD STE D1	CUPERTINO	CA	95014-3018
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10440 S DE ANZA BLVD STE D6	CUPERTINO	CA	95014-3018
369-40-039	OWNER	DE ANZA MEDICAL LLC	5674 SONOMA DR STE A	PLEASANTON	CA	94566-8102
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 100	CUPERTINO	CA	95014-3098
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 110	CUPERTINO	CA	95014-3024
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 120	CUPERTINO	CA	95014-3024
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 130	CUPERTINO	CA	95014-3025
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 140	CUPERTINO	CA	95014-3024
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 150	CUPERTINO	CA	95014-3024
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 160	CUPERTINO	CA	95014-3000
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 170	CUPERTINO	CA	95014-3000
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 175	CUPERTINO	CA	95014-3000
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 185	CUPERTINO	CA	95014-3006
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 195	CUPERTINO	CA	95014-3006
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 200	CUPERTINO	CA	95014-3006
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 210	CUPERTINO	CA	95014-3022
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 220	CUPERTINO	CA	95014-3022
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 230	CUPERTINO	CA	95014-3022
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 260	CUPERTINO	CA	95014-3025
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369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 280	CUPERTINO	CA	95014-3025
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 290	CUPERTINO	CA	95014-3025

STATE OF CALIFORNIA)
)
COUNTY OF ORANGE)

**DECLARATION OF MAILING RE: PERMIT
SUBMITTAL NOTICE**

I, Norah Jaffan _____, do hereby declare as follows:

1. I am a Project Manager of NotificationMaps.com. I am over 18 years of age and I am a resident of the County of Orange, State of California.
2. On April 11, 2018 I caused to be mailed and/or distributed a copy of "PERMIT SUBMITTAL NOTICE" to the following location(s) within the 300 foot boundaries of the proposed site :

- | | |
|----------------------------------|--------------------------------|
| a. <u>See Attached Map</u> | b. <u>10465 S De Anza Blvd</u> |
| <u>See Attached Mailing List</u> | _____ |
| <u>See Attached Notice</u> | _____ |
| | |
| c. <u>See Attached Envelope</u> | d. _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

3. The attached list was prepared using the latest available data per the County Assesor's Office.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed 04/11/2018 at County of Orange, California.

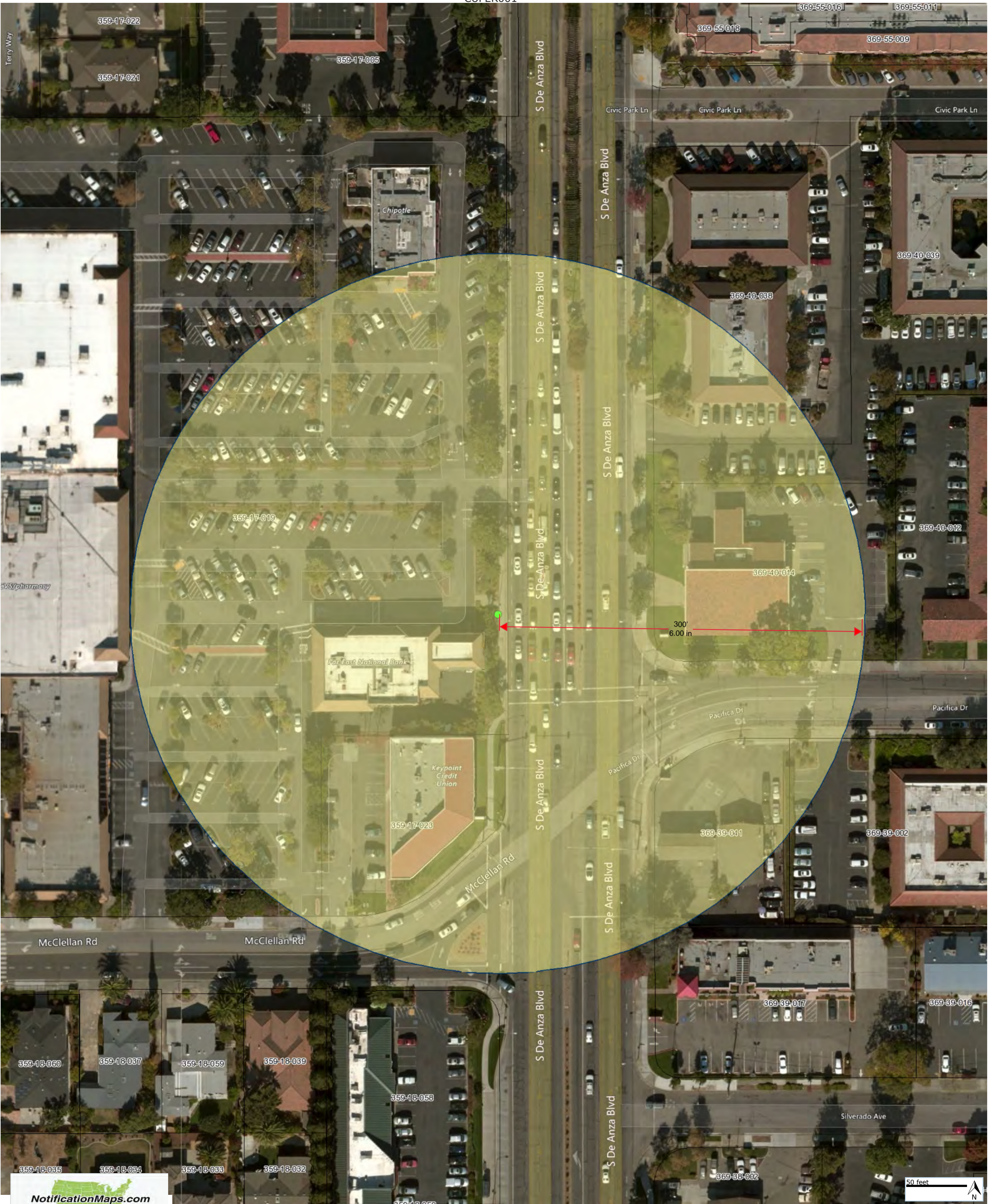
By:



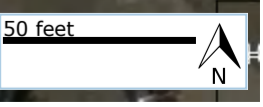
Norah Jaffan

[Please Print Name]

300' RADIUS MAP
CUPER001



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866.752.6266 toll free
949.613.8341 fax
sales@notificationmaps.com
www.notificationmaps.com
Mailing Address Only:
668 N Coast Hwy #401
Laguna Beach, CA 92651



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359-17-019	BUSINESS OWNER	BUSINESS OWNER	10487 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-019	BUSINESS OWNER	BUSINESS OWNER	10493 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-023	OWNER	BDC ATWATER SHOPS LP	1556 PARKSIDE DR	WALNUT CREEK	CA	94596-3556
359-17-023	BUSINESS OWNER	BUSINESS OWNER	10497 S DE ANZA BLVD	CUPERTINO	CA	95014-3011
359-17-023	BUSINESS OWNER	BUSINESS OWNER	10495 S DE ANZA BLVD STE A	CUPERTINO	CA	95014-3034
359-17-023	BUSINESS OWNER	BUSINESS OWNER	10495 S DE ANZA BLVD STE C	CUPERTINO	CA	95014-3034
369-39-002	OWNER	PETRI GEORGENE	34 W SANTA CLARA ST	SAN JOSE	CA	95113-1806
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369-39-002	BUSINESS OWNER	BUSINESS OWNER	20480 PACIFICA DR STE C	CUPERTINO	CA	95014-3015
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369-39-017	BUSINESS OWNER	BUSINESS OWNER	10520 S DE ANZA BLVD STE A	CUPERTINO	CA	95014-3036
369-39-017	BUSINESS OWNER	BUSINESS OWNER	10520 S DE ANZA BLVD FRNT	CUPERTINO	CA	95014-3036
369-39-041	OWNER	LIAONING BENEFIT PETROLEUM US CORPORATION	1625 THE ALAMEDA STE 202	SAN JOSE	CA	95126-2223
369-39-041	BUSINESS OWNER	BUSINESS OWNER	10490 S DE ANZA BLVD	CUPERTINO	CA	95014-3020
369-40-014	OWNER	BANK CATHAY	77 N BROADWAY	LOS ANGELES	CA	90012
369-40-014	BUSINESS OWNER	BUSINESS OWNER	10480 S DE ANZA BLVD	CUPERTINO	CA	95014-3012
369-40-038	OWNER	WU YE MING	20710 SCOFIELD DR	CUPERTINO	CA	95014-2962
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10420 S DE ANZA BLVD	CUPERTINO	CA	95014-3012
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10440 S DE ANZA BLVD STE D4	CUPERTINO	CA	95014-3018
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10440 S DE ANZA BLVD STE D1	CUPERTINO	CA	95014-3018
369-40-038	BUSINESS OWNER	BUSINESS OWNER	10440 S DE ANZA BLVD STE D6	CUPERTINO	CA	95014-3018
369-40-039	OWNER	DE ANZA MEDICAL LLC	5674 SONOMA DR STE A	PLEASANTON	CA	94566-8102
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 100	CUPERTINO	CA	95014-3098
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 110	CUPERTINO	CA	95014-3024
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369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 130	CUPERTINO	CA	95014-3025
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 140	CUPERTINO	CA	95014-3024
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 150	CUPERTINO	CA	95014-3024
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 160	CUPERTINO	CA	95014-3000
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 170	CUPERTINO	CA	95014-3000
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 175	CUPERTINO	CA	95014-3000
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 185	CUPERTINO	CA	95014-3006
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 195	CUPERTINO	CA	95014-3006
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 200	CUPERTINO	CA	95014-3006
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 210	CUPERTINO	CA	95014-3022
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 220	CUPERTINO	CA	95014-3022
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 230	CUPERTINO	CA	95014-3022
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 260	CUPERTINO	CA	95014-3025
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 270	CUPERTINO	CA	95014-3025
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 275	CUPERTINO	CA	95014-3025
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 280	CUPERTINO	CA	95014-3025

APN	TYPE	NAME	ADDRESS	CITY	STATE	ZIP
369-40-039	BUSINESS OWNER	BUSINESS OWNER	10430 S DE ANZA BLVD STE 290	CUPERTINO	CA	95014-3025



PERMIT SUBMITTAL NOTICE

Verizon Site Number: SF_CUPER001

Verizon Wireless, in partnership with the City of Cupertino, is happy to announce that it will soon be improving coverage and data capacity to its network in your neighborhood. The improved wireless coverage will help accommodate the growing number of wireless calls and data use on the Verizon Wireless network. The Verizon Wireless small cell site will greatly enhance service capacity with the most aesthetically discrete technology available today.

In order to make these upgrades, Verizon Wireless is proposing a small cell on a streetlight pole located in the public right of way near the intersection of S De Anza Blvd & McClellan Rd. The major components of the proposed installation include the following:

- Removing the existing steel streetlight pole and replacing with a new steel streetlight pole similar in size
- Installing (1) canister antenna on top of the streetlight pole
- Installing (2) small remote radio units (RRUs) on the side of the streetlight pole

Included in this letter are the following documents:

- Map showing the proposed project location
- Photo simulations showing the before and after view of the proposed project

Part of the permitting process through the City of Cupertino Department of Public Works (DPW) involves notifying residents located within 300' of the proposed project site about the installation. Residents are invited to contact Verizon Wireless, within 14 days of the postmarked date on the envelope, with any questions or concerns regarding this installation. All inquiries will be logged and shared with the City of Cupertino Public Works Department prior to issuance of any permits for this work.

After construction is completed, Verizon will perform on site testing to ensure the small cell is operating within FCC standards for Radio Frequency Emissions. Residents within 100' of the site will be notified of the date of the testing and may request, in advance that Verizon Wireless perform tests on their property at that time.

For further information, and answers to frequently asked questions, please check the FAQ on Small Cell Facilities provided on the City of Cupertino website here:

<http://www.cupertino.org/home/showdocument?id=19317>

Contact Information:

Modus Representing Verizon Wireless:

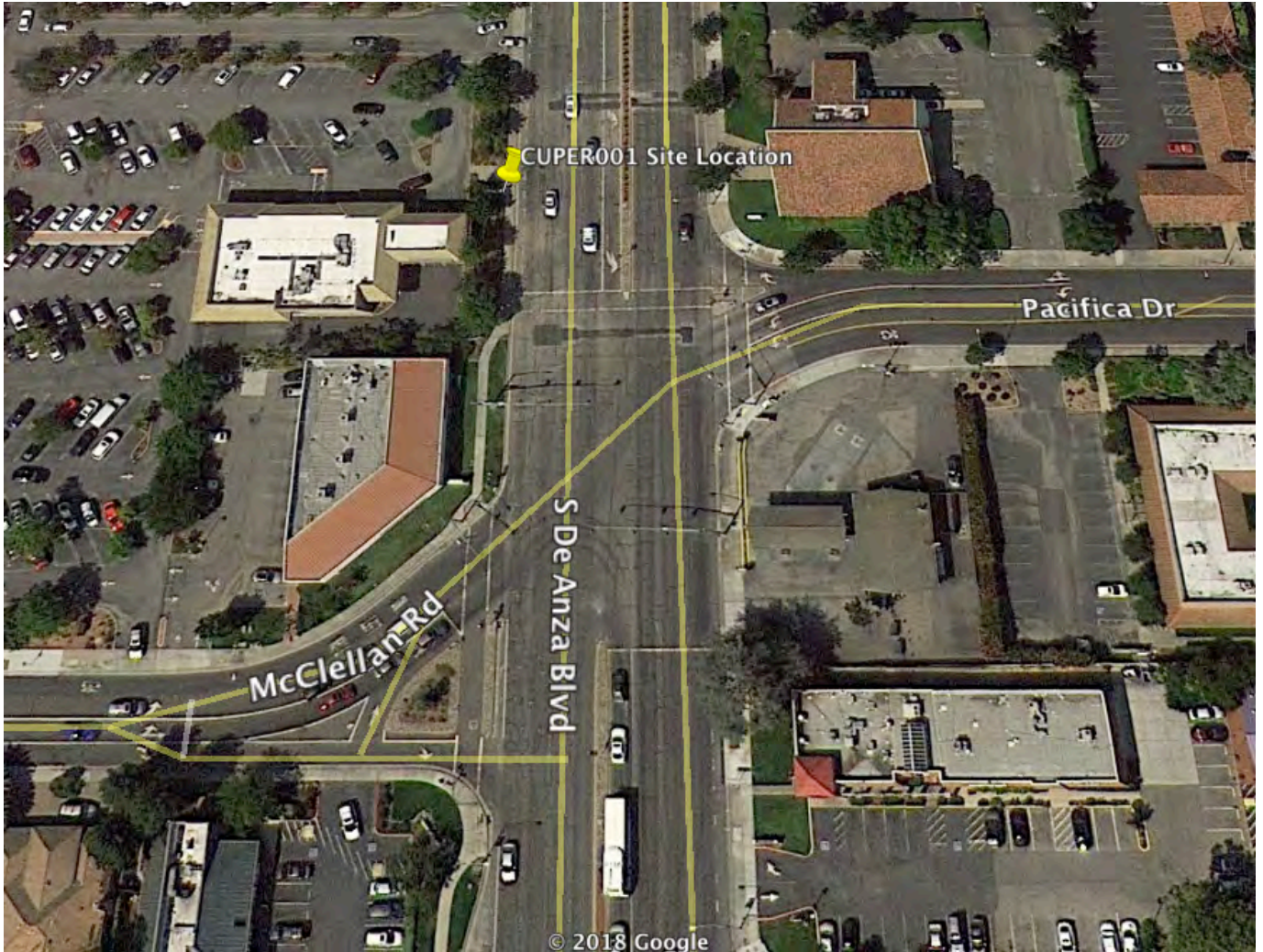
Kevin Bowyer

Phone: (415) 989-1102

Email: kbowyer@modus-corp.com



Location of Installation on City Streetlight



Existing



Proposed



view from S De Anza Blvd looking south at site

view from S De Anza Blvd looking north at site



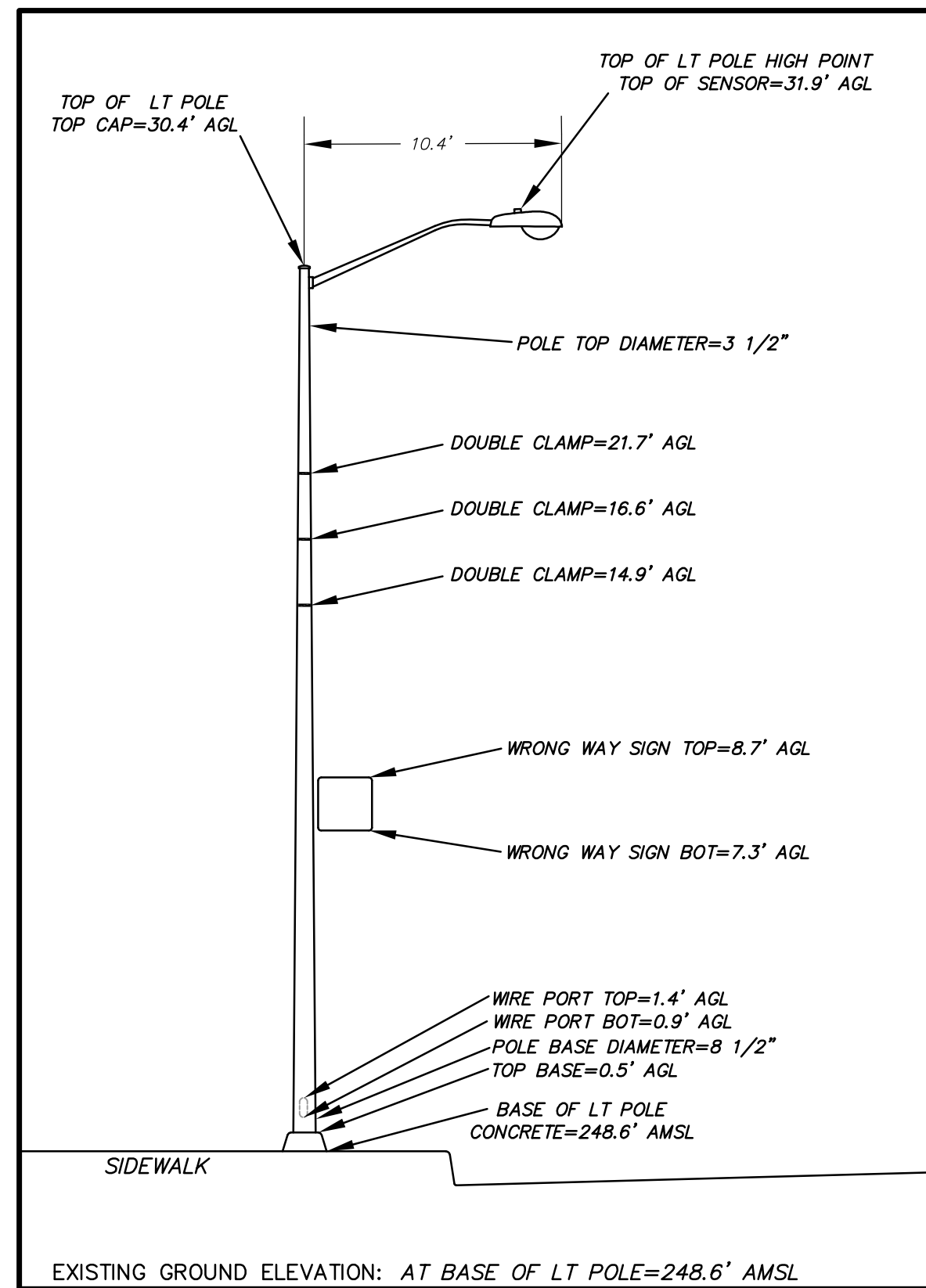
SF Cuper001
10465 S De Anza Blvd, Cupertino, CA
Photosims Produced on 4-2-2018

Existing

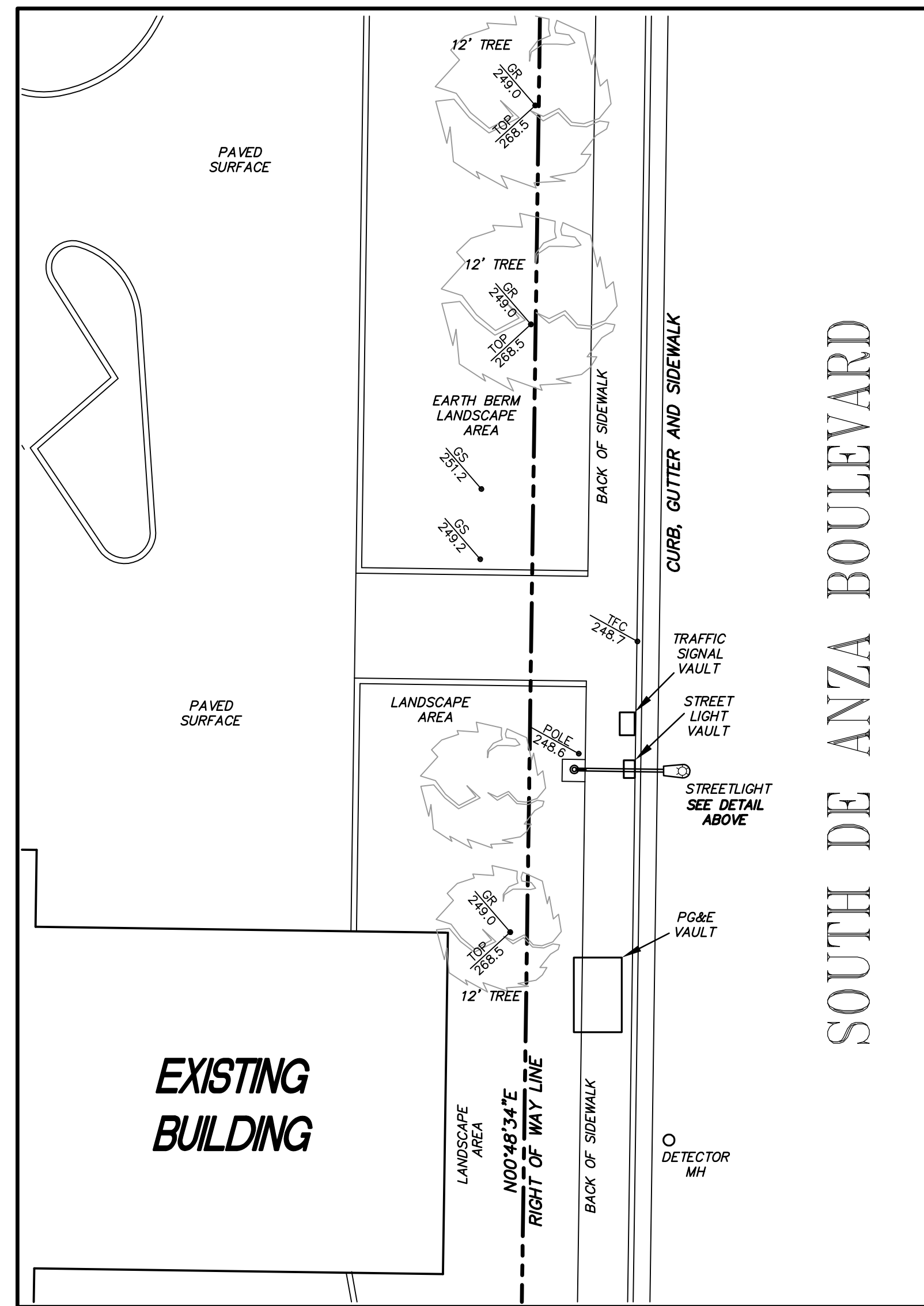


Proposed

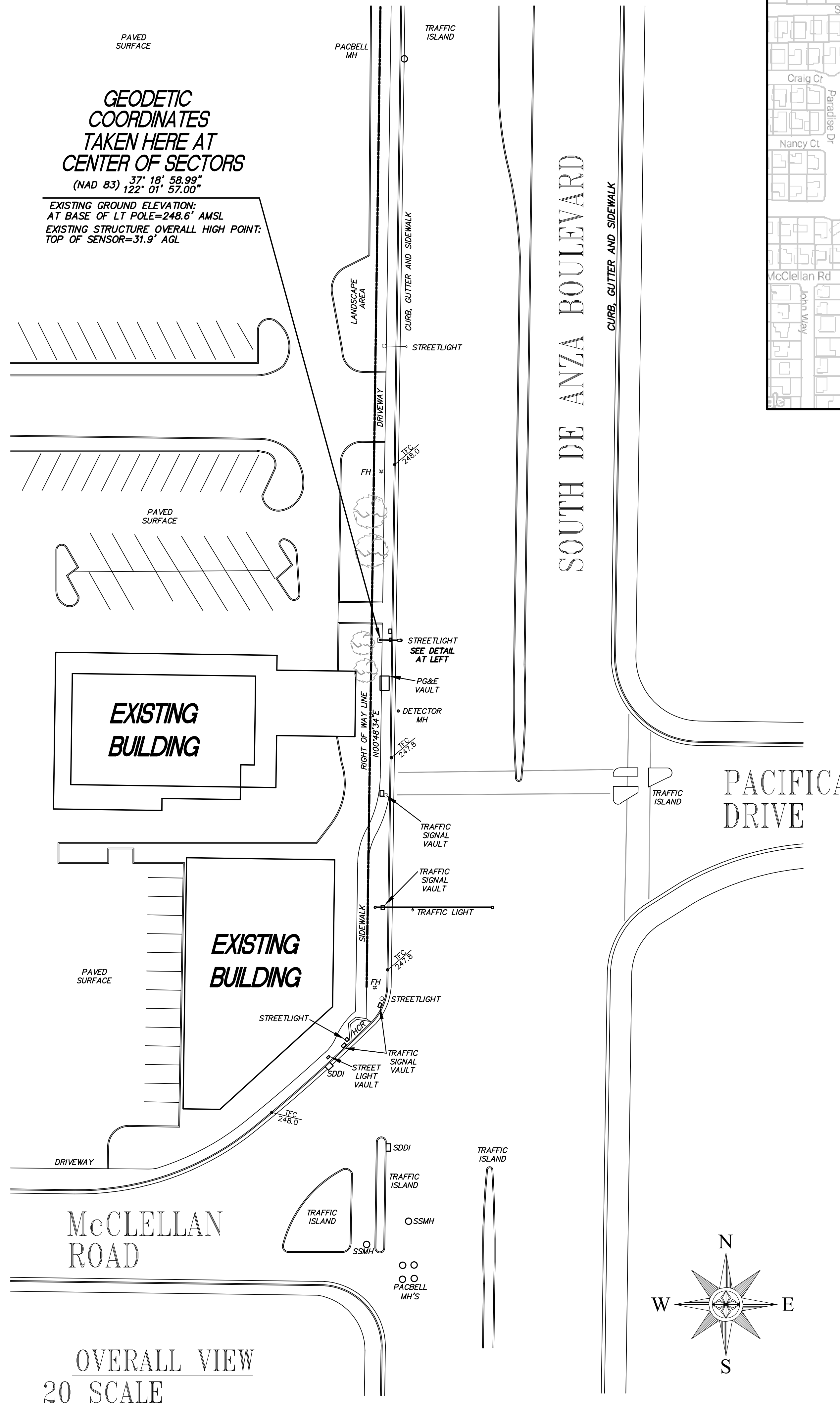




POLE DETAIL
5 SCALE 1" = 5'



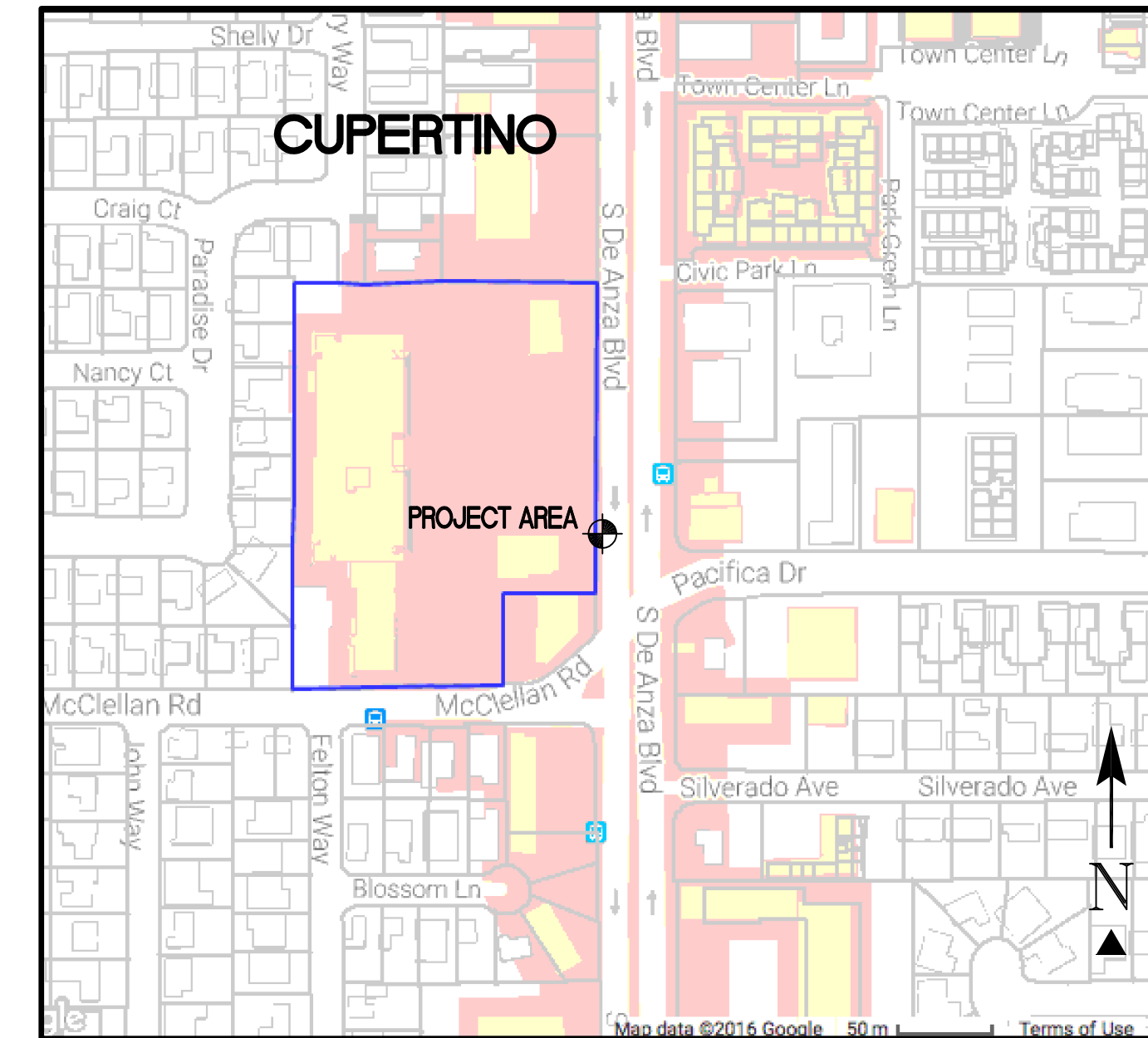
PROJECT AREA
10 SCALE



OVERALL VIEW
20 SCALE

GEODETIC COORDINATES TAKEN HERE AT CENTER OF SECTORS
(NAD 83) 37° 18' 58.99"
122° 01' 57.00"

EXISTING GROUND ELEVATION:
AT BASE OF LT POLE=248.6' AMSL
EXISTING STRUCTURE OVERALL HIGH POINT:
TOP OF SENSOR=31.9' AGL



VICINITY MAP
N.T.S.

PROPERTY INFORMATION

SF_CUPER001

SITE: CPSC001
10465 SOUTH DE ANZA BOULEVARD
CUPERTINO, CA 95014

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM STATE PLANE COORDINATE ZONE 3, DETERMINED BY GPS OBSERVATIONS.

BENCHMARK

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING GEOID 99 SEPARATIONS, CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.0' (NAVD88)

UTILITY NOTES

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SURVEYOR'S NOTES

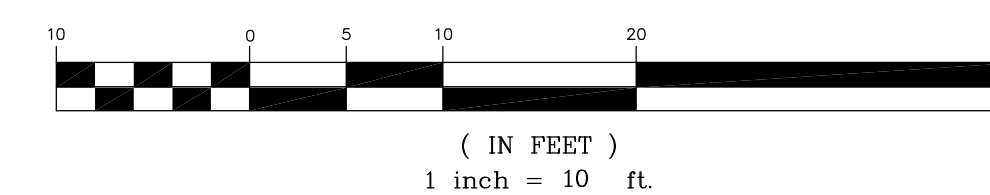
ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

LEGEND

- | | | | |
|-----|------------------------|-----|------------------------|
| DI | DRAIN INLET | W | WATER CONTROL VALVE |
| TFC | TOP FACE OF CURB | FH | FIRE HYDRANT |
| R/W | RIGHT OF WAY | GC | GUY CONDUCTOR |
| EP | EDGE OF PAVED DRIVEWAY | FN | FOUND AS NOTED |
| DW | DRIVEWAY | PP | POWER POLE |
| TOP | TOP OF SLOPE | LP | LIGHT POLE |
| SW | SIDEWALK | ET | ELECTRICAL TRANSFORMER |
| TP | TOP OF PARAPET | AU | AIR CONDITIONING UNIT |
| OH | OVERHANG | TP | TELEPHONE PEDESTAL |
| FH | FIRE HYDRANT | TV | TELEPHONE VAULT |
| WV | WATER VALVE | TM | TELEPHONE MANHOLE |
| MH | MANHOLE | GV | GAS VALVE |
| GC | GEODETIC COORDINATES | GM | GAS METER |
| SE | SPOT ELEVATION | PL | PROPERTY LINE |
| DA | DISH ANTENNA | CLF | CHAIN LINK FENCE |

SURVEY DATE
8/15/16

GRAPHIC SCALE

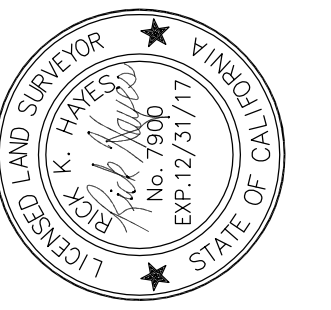


ISSUE STATUS

REV.	DATE	DESCRIPTION
1	8/24/2016	SITE PLAN



HAYES
Land Surveying
And Mapping
2850 MADRIGAN COURT
CONCORD, CA 94518



2785 MITCHELL DRIVE
WALNUT CREEK, CA. 94598
OFFICE: 925-279-6000
(925) 279-6333

**TOPOGRAPHIC SURVEY
EXISTING CONDITIONS**

SF_CUPER001
CPSC001
10465 SOUTH DE ANZA
BOULEVARD
CUPERTINO, CA 95014

**C-1
SHEET 1 of 1**

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

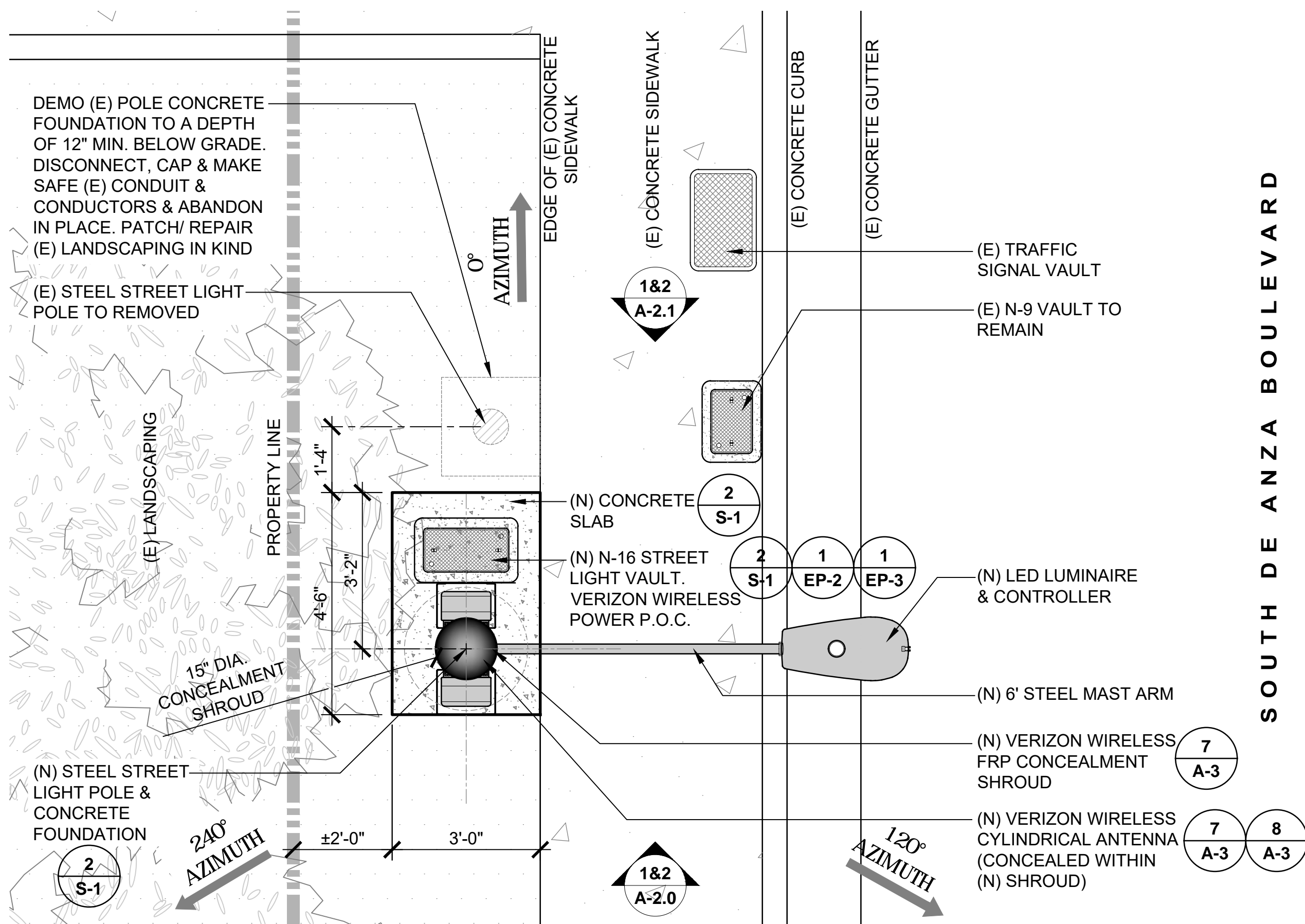
THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE SOLELY WITH RESPECT TO THIS PROJECT. THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN CONSENT. THESE PLANS ARE FORMATTED TO BE FULL-SIZE AT ARCH D 24"x36". COPYRIGHT 2018 JAMES VACCARO ARCHITECT, INC.

SHEET TITLE

**SITE PLAN, ENLARGED
ANTENNA LAYOUT,
ENLARGED EQUIPMENT
LAYOUT**

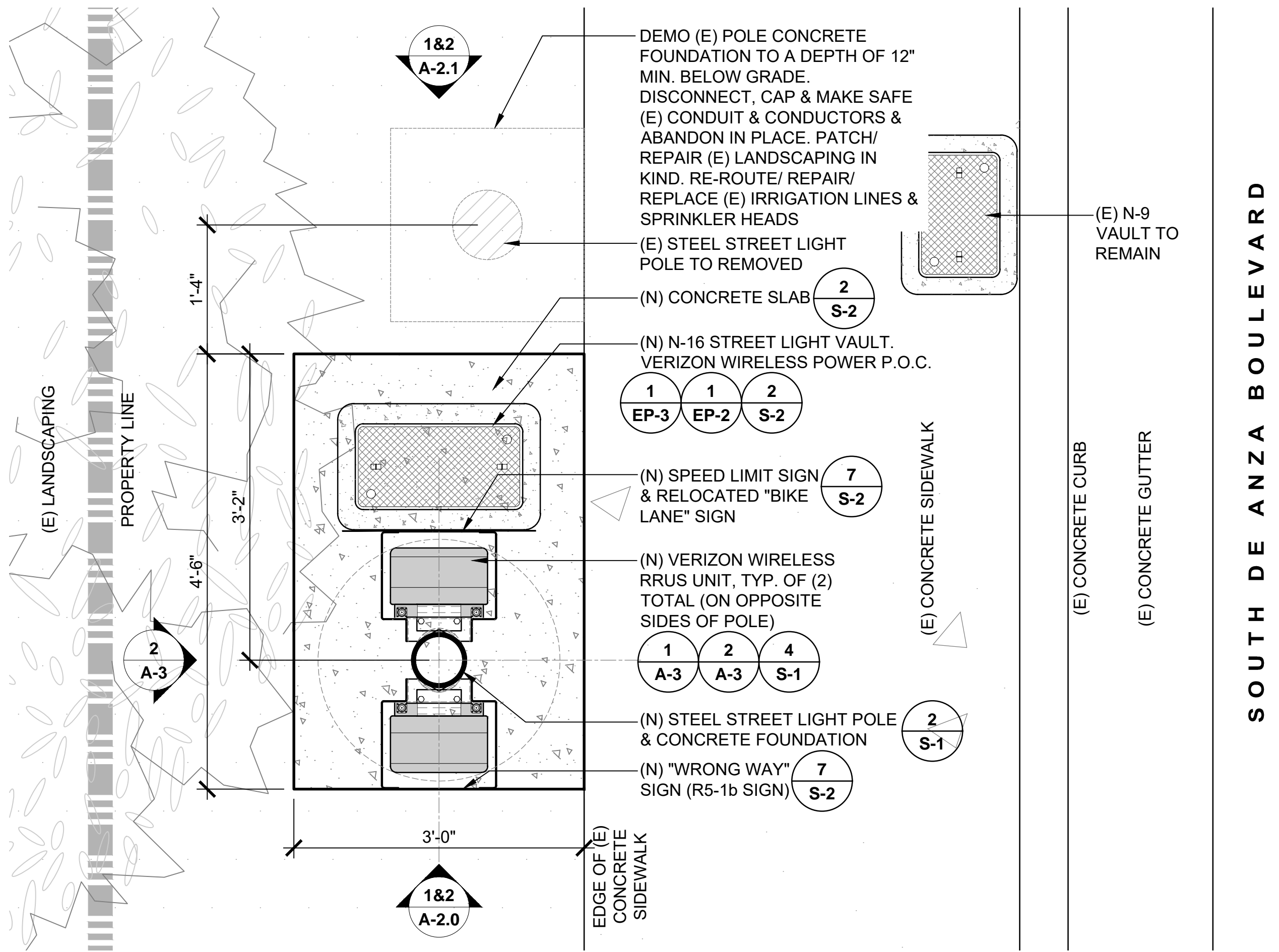
SHEET NUMBER

A-1



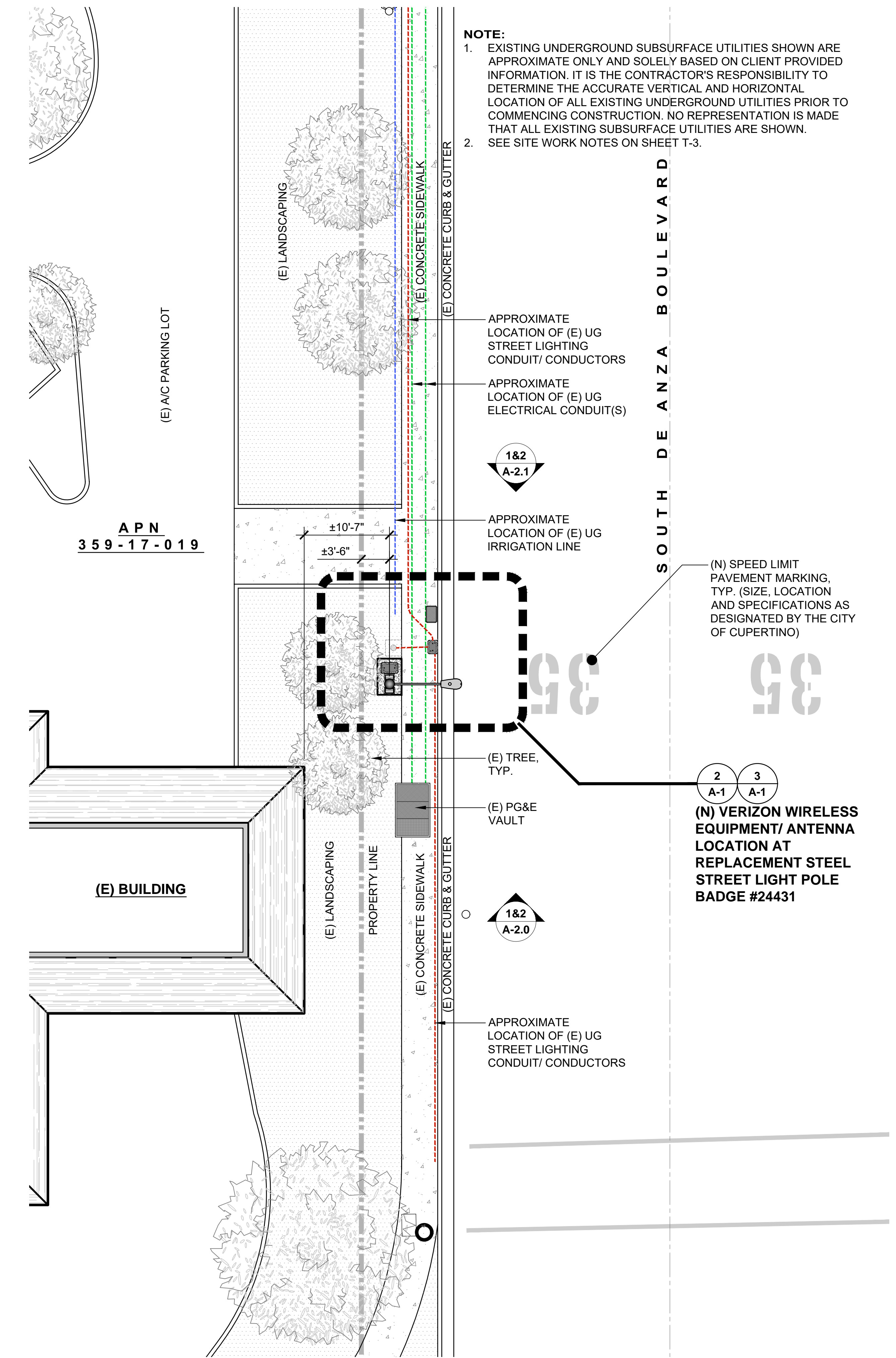
ENLARGED ANTENNA LAYOUT

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



ENLARGED EQUIPMENT LAYOUT

SCALE: 1"=1'-0"



SITE PLAN

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

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

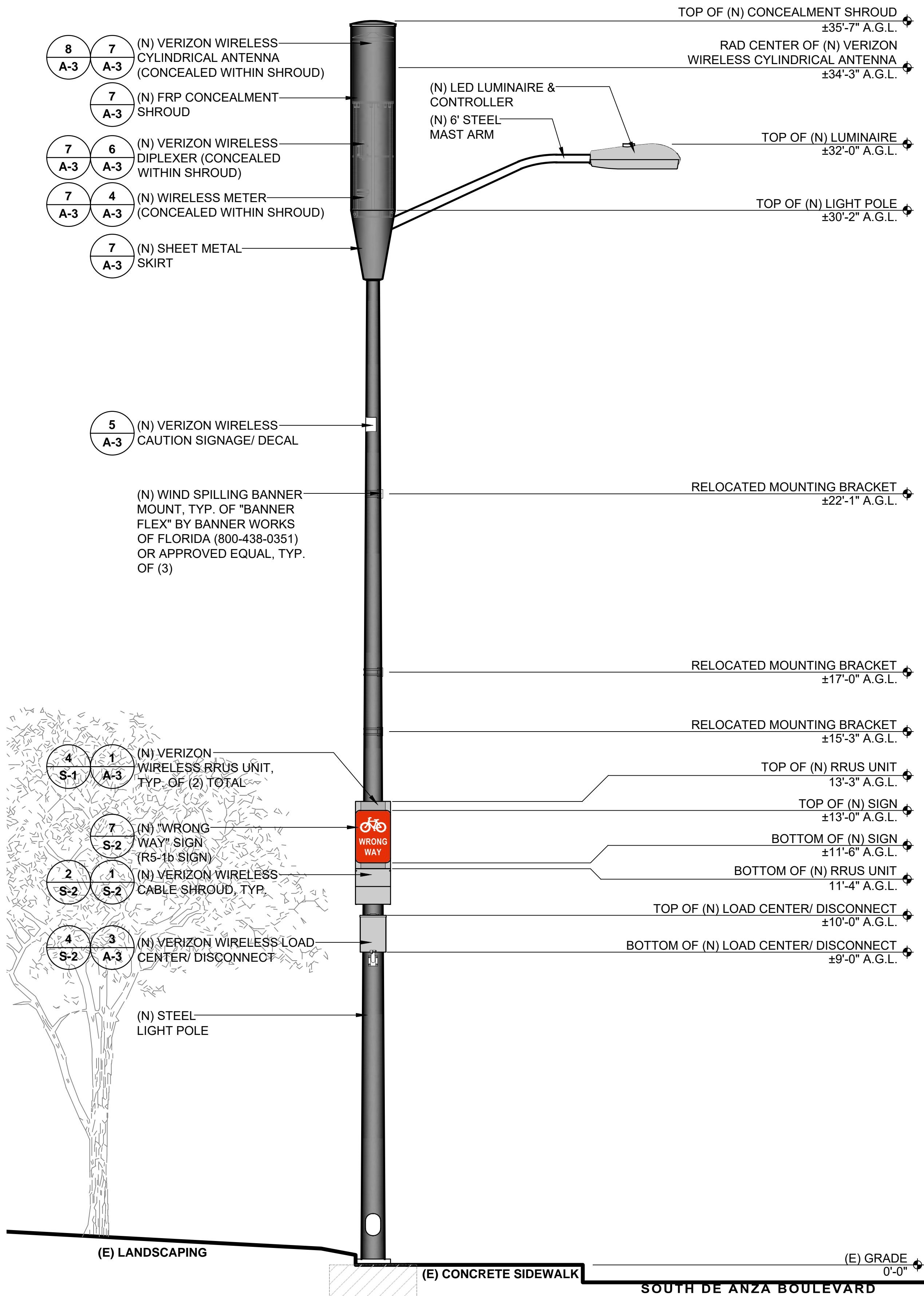
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SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-2.0

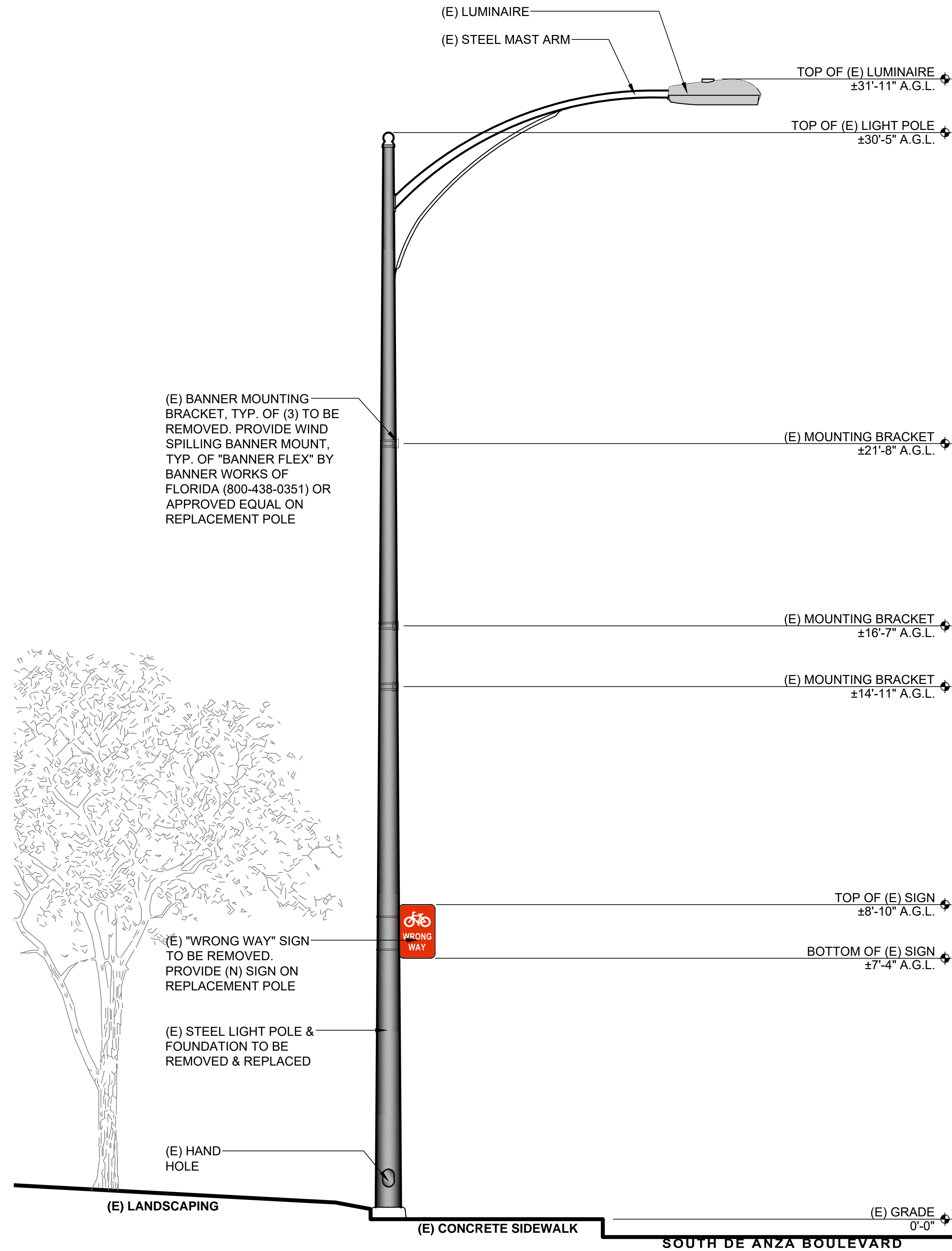


NOTES:

1. REPLACEMENT STEEL LIGHT POLE SHALL BE 7 GA. MODIFIED TYPE 15 POLE BY VALMONT INDUSTRIES, INC. WITH SINGLE ARM ASSEMBLY (ARM LENGTH TO MATCH EXISTING).
2. EXISTING POLE MOUNTED SIGNAGE SHALL BE RELOCATED TO NEW POLE.
3. REPLACEMENT MAST ARM AND LUMINAIRE SHALL BE ORIENTED PERPENDICULAR TO CENTERLINE OF EXISTING ROADWAY.
4. DEMO EXISTING EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING POLE FOUNDATION AND PLACEMENT OF NEW FOUNDATION. REPLACE EXISTING SIDEWALK IN KIND.

PROPOSED SOUTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 2



EXISTING SOUTH ELEVATION

SCALE: 1/2"=1'-0" 1' 2' 4' 1

CLIENT



MODUS, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV.

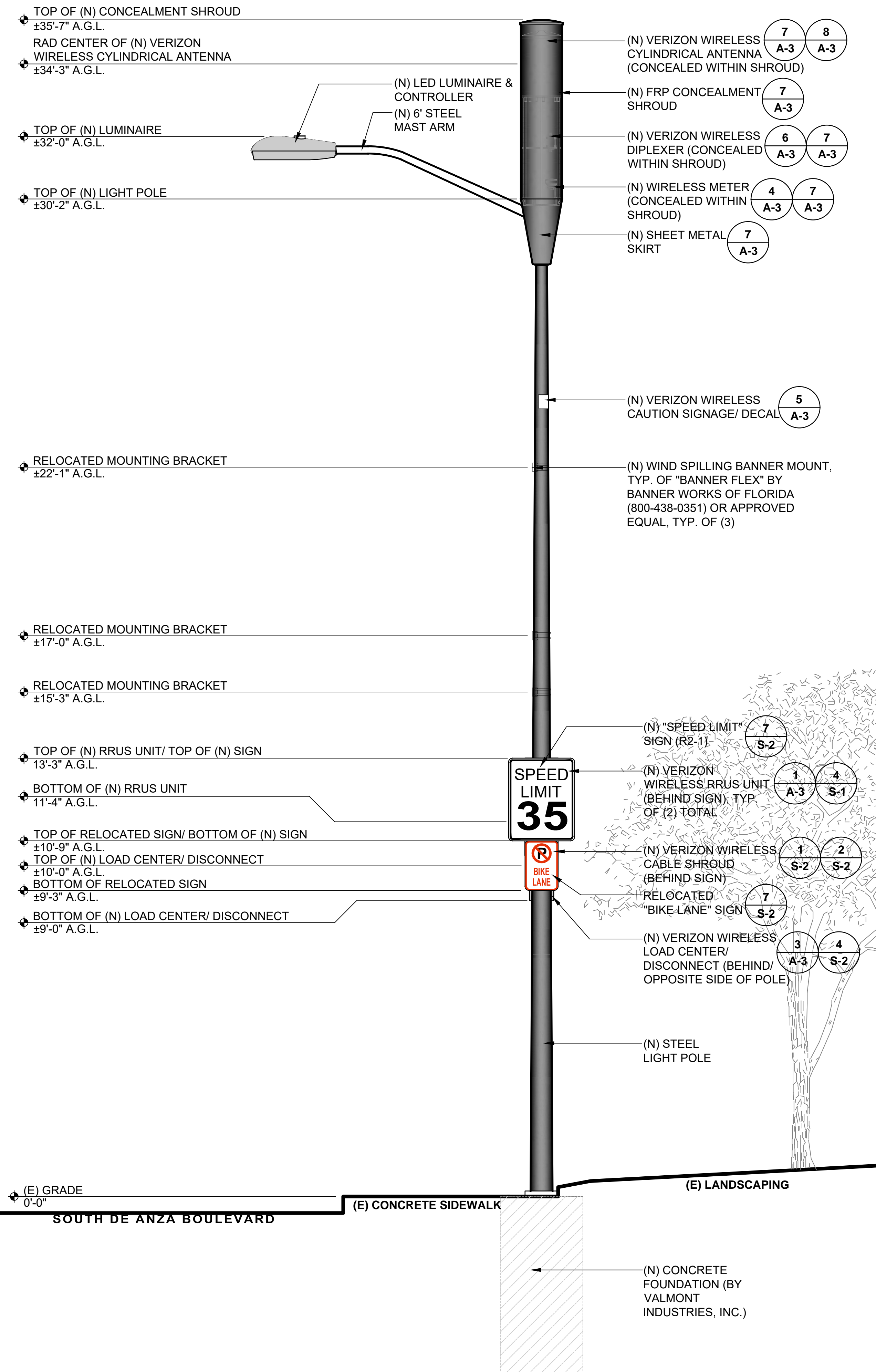
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SHEET TITLE

ELEVATIONS

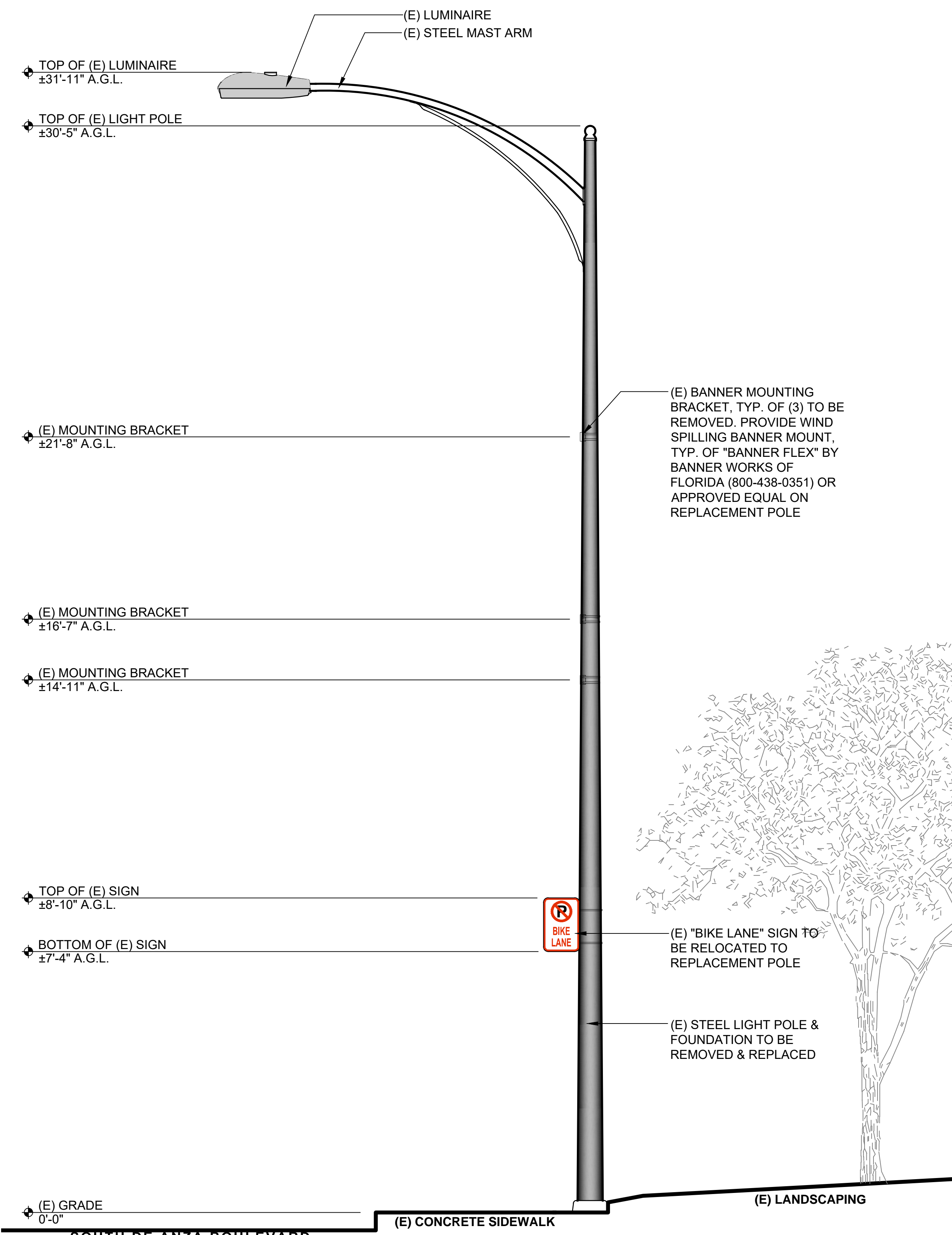
SHEET NUMBER

A-2.1



PROPOSED NORTH ELEVATION

SCALE: 1/2"=1'-0"
1' 2' 4' 2



EXISTING NORTH ELEVATION

SCALE: 1/2"=1'-0"
1' 2' 4' 1

**Activation Report • Verizon Wireless • Small Cell No. 417709 “SF_CUPER001”
10465 South De Anza Boulevard • Cupertino, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Verizon Wireless, a personal wireless telecommunications carrier, to evaluate the small cell located at 10465 South De Anza Boulevard in Cupertino, California, compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Executive Summary

Verizon had installed a cylindrical antenna above the light pole sited in the public right-of-way near 10465 South De Anza Boulevard in Cupertino. All exposure levels under the existing conditions for anyone in publicly accessible areas nearby were well below the federal standard.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. A summary of the FCC’s exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The most restrictive limit for exposures of unlimited duration at several wireless service bands are as follows:

Wireless Service Band	Transmit Frequency	“Uncontrolled” Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm ²	5.0 mW/cm ²
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
BRS (Broadband Radio)	2,490 MHz	1.0	5.0
WCS (Wireless Communication)	2,305	1.0	5.0
AWS (Advanced Wireless)	2,110	1.0	5.0
PCS (Personal Communication)	1,930	1.0	5.0
Cellular	869	0.58	2.9
SMR (Specialized Mobile Radio)	854	0.57	2.85
700 MHz	716	0.48	2.4
[most restrictive frequency range]	30–300	0.20	1.0

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called “radios” or “channels”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The radios are typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to the antennas by coaxial cables. Because of the short wavelength of the frequencies



**Activation Report • Verizon Wireless • Small Cell No. 417709 “SF_CUPER001”
10465 South De Anza Boulevard • Cupertino, California**

assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Site Description

The site was visited by Mr. Scott Walthard, a qualified field technician employed by Hammett & Edison, Inc., during normal business hours on July 16, 2019, a non-holiday weekday. Verizon had installed a small cylindrical antenna about three stories above ground on top of the light pole located in the public right-of-way on the west side of South De Anza Boulevard, in front of the bank building located at 10465 South De Anza Boulevard, at least 14 feet away. There were observed no other wireless telecommunications base stations located at or next to the site. There were no residences located within 100 feet of the site.

Measurement Results

The measurement equipment used was a Narda Type NBM-520 Broadband Field Meter with Type EA-5091 Isotropic Electric Field Probe (Serial No. 01035) and a Wandel & Goltermann Type EMR-300 Radiation Meter with Type 18 Isotropic Electric Field Probe (Serial No. C-0010). The meters and probes were under current calibration by the manufacturers. Measurements were made from a bucket-truck at the antenna, as well as at ground near the site. At each test point, the measurement results were compared with applicable FCC standards. The maximum power density level observed beyond 1 foot from the antenna was less than the applicable public limit. The maximum power density level observed for a person at ground near the site was 0.00052 mW/cm², which is 0.26% of the most restrictive public limit. The three-dimensional perimeter of RF power density levels equal to the FCC standard for uncontrolled areas did not extend into any uncontrolled areas.

No Recommended Compliance Measures

Access to the antenna was restricted by its mounting location and height. Since exposure levels in publicly accessible areas were found to be below the applicable public limit, no other access controls or signs are required to meet FCC public guidelines. The operation can be considered intrinsically compliant with the FCC occupational guidelines. An explanatory sign was posted on the pole below the antenna.



**Activation Report • Verizon Wireless • Small Cell No. 417709 “SF_CUPER001”
10465 South De Anza Boulevard • Cupertino, California**

Conclusion

Based upon the information and analysis above, it is the undersigned’s professional opinion that this Verizon Wireless small cell, as installed and operating at the time of the measurements, complies with the FCC standards for limiting public exposure in uncontrolled areas to radio frequency energy and, therefore, does not for this reason cause a significant impact on the environment.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2021. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



William F. Hammett

William F. Hammett, P.E.
707/996-5200

July 31, 2019

Comment on Acoustic Noise

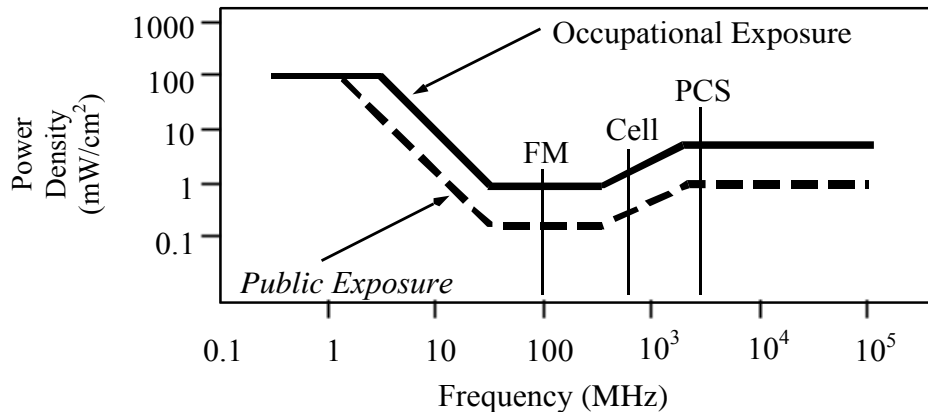
As noted for similar Verizon facilities at other locations in Cupertino, no noise was perceptible from the equipment inside the pedestal at the base of the pole.

FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (f is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f ²	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√f	<i>1.59√f</i>	√f/106	<i>√f/238</i>	f/300	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.

ROW AT 10465 S. DE ANZA BLVD - CUPER 001
ENCROACHMENT AGREEMENT

This Encroachment Agreement ("Encroachment Agreement"), made this 29 day of MAY, 2018 ("Effective Date") between the City of Cupertino, a political subdivision of the State of California, hereinafter designated "Licensor" and GTE Mobilnet of California Limited Partnership, d/b/a Verizon Wireless, with its principal offices at c/o Verizon Wireless, 180 Washington Valley Road, Bedminster, New Jersey 07921, hereinafter designated "Licensee":

1. Encroachment Agreement. This is an Encroachment Agreement as referenced in that certain Small Cell License Agreement between Licensor and Licensee dated May 16, 2017 ("Agreement"). This Encroachment Agreement shall serve as an encroachment license. All of the terms and conditions of the Agreement are incorporated hereby by reference and made a part hereof without the necessity of repeating or attaching the Agreement. In the event of a contradiction, modification or inconsistency between the terms of the Agreement and this Encroachment Agreement, the terms of the Encroachment Agreement shall govern. Capitalized terms used in this Encroachment Agreement shall have the same meaning described for them in the Agreement unless otherwise indicated herein.
2. Project Description and Locations. Licensee shall have the right to use the ROW for a Small Cell at the designated areas in the ROW as further described in Attachment I attached hereto (the "Licensed Area").
3. Equipment. The Small Cell to be installed at the Licensed Area is described in Attachment I attached hereto.
4. Term. The term of this Encroachment Agreement shall be as set forth in Section 2 of the Agreement.
5. Fees. The initial Rent for the term of this Encroachment Agreement shall be \$1,500.00, as determined in accordance with Paragraph 5.1 of the Agreement, as adjusted by Paragraph 5.2.
6. Commencement Date. The first day of the month following the date Licensee has Commenced Installation of its Equipment at the Licensed Area.
7. Approvals/Fiber. It is understood and agreed that Licensee's ability to use the Licensed Area is contingent upon its obtaining all of the certificates, permits and other approvals (collectively the "Governmental Approvals") that may be required by any Federal, State or Local authorities, as well as a satisfactory fiber and electrical connection which will permit Licensee use of the Licensed Area as set forth above. In the event that (i) any of such applications for such Governmental Approvals should be finally rejected; (ii) any Governmental Approval issued to Licensee is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority; (iii) Licensee determines that such Governmental Approvals may not be obtained in a timely manner; (iv) Licensee determines that it will be unable to obtain in a satisfactory manner, or maintain any fiber or power connection; or (v) Licensee determines that the Licensed Area is no longer technically compatible for its use, Licensee shall have the right to terminate this Encroachment Agreement. Notice of Licensee's exercise of its right to terminate shall be given to Licensee in writing by certified

mail, return receipt requested, and shall be effective upon the mailing of such notice by Licensee, or upon such later date as designated by Licensee. All rentals paid to said termination date shall be retained by Licensor. Upon such termination, this Encroachment Agreement shall be of no further force or effect except to the extent of the representations, warranties and indemnities made by each party to the other hereunder. Otherwise, Licensee shall have no further obligations for the payment of Rent to Licensor.

8. Miscellaneous, _____;

[Signature page follows]

EXECUTED to be effective as of the date shown above.

LICENSOR:

City of Cupertino, a political
subdivision of the State of California

By:

Name:

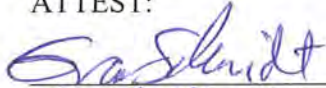
Title:



CHAD MOSLEY

CITY ENGINEER

ATTEST:


5-29-18, Clerk

APPROVED AS TO FORM
CITY ATTORNEY'S OFFICE

BY:

Randolph Horn

City Attorney 

LICENSEE:

GTE MOBILNET OF CALIFORNIA
LIMITED PARTNERSHIP,
D/B/A VERIZON WIRELESS

by Cellco Partnership,
its General Partner

By:

Name:

Title:

Scott Stewart 5/7/18

SCOTT STEWART

DIRECTOR - NETWORK

Exhibits:

Attachment 1

Attachment 1

Licensed Area

See attached.



SITE NAME: SF_CUPER001
SITE ID: CPSC001
LOCATION CODE: 417709
ASSET ID: LTPL1004
BADGE NUMBER: 24431
SERVICE ID: 4993063026
SITE ADDRESS: PUBLIC ROW ADJACENT TO 10465 S. DE ANZA BOULEVARD CUPERTINO, CA 95014
COUNTY: SANTA CLARA COUNTY
SITE TYPE: STEEL LIGHT POLE

JAMES VACCARO ARCHITECT, INC.

411 DOWDEE WAY, UNIT C
 PACIFICA, CA 94044
 415.868.2079 PHONE (415) 868.4471 FAX
 INFO@JVARCHITECT.COM
 WWW.JVARCHITECT.COM

CLIENT



MODUS, INC.
 240 STOCKTON STREET, 3RD FLOOR
 SAN FRANCISCO, CA 94108



VERIZON WIRELESS
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598

CONSULTANTS

SF_CUPER001
 CPSC001
 PUBLIC ROW ADJACENT TO
 10465 S. DE ANZA BOULEVARD
 CUPERTINO, CA 95014
 APN: PUBLIC ROW ADJACENT
 TO 359-17-019



REV	DATE	ISSUE
1	10/18/2017	80% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

THESE PLANS ARE INSTRUMENTS OF SERVICE AND ARE FOR THE CLIENT'S USE ONLY. WITH RESPECT TO THIS PROJECT, THESE PLANS SHALL NOT BE ALTERED, MODIFIED OR REPRODUCED IN PART OR IN WHOLE WITHOUT THE WRITTEN CONSENT OF THESE PLANS ARE FORMATTED TO BE FULL SIZE AT ARCH D 24"x36" COPYRIGHT 2018, JAMES VACCARO ARCHITECT, INC.

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



DIRECTIONS FROM VERIZON WIRELESS OFFICE WALNUT CREEK, CA.

- HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD
- TURN LEFT ONTO OAK GROVE RD
- USE THE LEFT 2 LANES TO TURN LEFT ONTO TREAT BLVD
- TURN RIGHT ONTO N MAIN ST
- TURN RIGHT ONTO THE INTERSTATE 680 S RAMP TO OAKLAND/SAN JOSE
- MERGE ONTO I-680 S
- CONTINUE ONTO I-280 N
- USE THE 2ND FROM THE RIGHT LANE TO TAKE THE DE ANZA BOULEVARD EXIT
- USE THE LEFT 2 LANES TO TURN LEFT ONTO W DE ANZA BLVD

DRIVING DIRECTIONS

TITLE	SIGNATURE	DATE
VERIZON PM		
VERIZON CM		
VERIZON RF		
MODUS PM		
MODUS CM		
UTILITIES		
LANDLORD/PROPERTY OWNER		

SIGNATURE BLOCK

PROJECT DESCRIPTION
 THE PROJECT INVOLVES THE INSTALLATION OF AN UNMANNED WIRELESS TELECOMMUNICATION FACILITY CONSISTING OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON A CITY OF CUPERTINO REPLACEMENT STEEL LIGHT POLE IN THE PUBLIC RIGHT OF WAY. EXISTING POLE AND FOUNDATION TO BE REMOVED AND REPLACED WITH NEW STEEL POLE AND CONCRETE FOUNDATION. EXISTING POLE FOUNDATION TO BE DEMOLISHED TO A MINIMUM DEPTH BELOW EXISTING GRADE AND ABANDONED IN PLACE.
GENERAL SCOPE OF WORK

- **ANTENNA AND ASSOCIATED EQUIPMENT**
 INSTALL A NEW CYLINDRICAL ANTENNA AND EQUIPMENT ON A STEEL LIGHT POLE. INSTALLATION CONSISTS OF (1) NEW CYLINDRICAL ANTENNA CONCEALED WITHIN NEW CONCEALMENT SHROUD AT TOP OF LIGHT POLE, (2) NEW RRUS EQUIPMENT CABINETS AND (1) NEW LOAD CENTER DISCONNECT MOUNTED TO LIGHT POLE AND ASSOCIATED POWER, FIBER AND COAXIAL CABLES ROUTED WITHIN LIGHT POLE.
- **PAINT**
 ALL NEW EQUIPMENT AND MOUNTING COMPONENTS SHALL BE PAINTED TO MATCH LIGHT POLE, INCLUDING ANTENNA SHROUD, MOUNTING BRACKETS, CABLE SHROUDS, SWEEP, RRUS UNITS, RRUS MOUNTING BRACKETS AND LOAD CENTER.
- **CABLING**
 CABLING TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS.
- **SIGNAGE**
 FCC MANDATED RF NOTICE/WARNING AND SHUT-DOWN SIGNAGE TO BE MOUNTED TO LIGHT POLE PER FCC REQUIREMENTS, THE CITY OF CUPERTINO REQUIREMENTS, THE CALIFORNIA PUBLIC UTILITIES COMMISSION GENERAL ORDER 95 SECTION 94.5 AND PACIFIC GAS AND ELECTRIC REQUIREMENTS.

PROJECT DESCRIPTION

ARCHITECT
 JAMES VACCARO ARCHITECT, INC.
 411 DOWDEE WAY, UNIT C
 PACIFICA, CA 94044
 CONTACT: JAMES VACCARO, AIA
 CONTACT NUMBER: (415) 868-3070
 FAX NUMBER: (415) 963-4471
 EMAIL: JVACCARO@JVARCHITECT.COM

SURVEYOR
 HAYES LAND SURVEYING AND MAPPING
 2830 MADISON COURT
 CONCORD, CA 94518
 CONTACT: RICK HAYES
 CONTACT NUMBER: (925) 798-3591
 EMAIL: RKSEYAH@GCOMCAST.NET

STRUCTURAL ENGINEER
 JEFFREY M. VAN DYKE, S.E.
 1470 FELTA ROAD
 HEALDSBURG, CA 95448
 CONTACT NUMBER: (707) 886-3721
 EMAIL: JEFFREY@STRUCTURALENGINEERINGCONSULTING.COM

AGENT PROJECT MANAGER
 MODUS, INC.
 240 STOCKTON STREET, 3RD FLOOR
 SAN FRANCISCO, CA 94108
 CONTACT: KEVIN BOWYER
 PHONE: (408) 219-5442
 EMAIL: KBOWYER@MODUS-CORP.COM

PROJECT TEAM

APPLICANT
 VERIZON WIRELESS
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598
 CONTACT: JENNIFER HAAS
 PHONE: (650) 759-1377
 EMAIL: JENNIFER.HAAS@VERIZONWIRELESS.COM

AGENT
 MODUS, INC.
 240 STOCKTON STREET, 3RD FLOOR
 SAN FRANCISCO, CA 94108
 CONTACT: KEVIN BOWYER
 PHONE: (408) 219-5442
 EMAIL: KBOWYER@MODUS-CORP.COM

PROPERTY OWNER
 CITY OF CUPERTINO
 CUPERTINO CITY HALL
 10350 TORRE AVENUE
 CUPERTINO, CA 95014-3022
 PHONE: (408) 777-3354
 EMAIL: ENGINEERING@CUPERTINO.ORG

APN: 000000000
OCCUPANCY TYPE: N/A-LIGHT POLE IN ROW
CONSTRUCTION TYPE: TYPE V-B
ZONING JURISDICTION: CITY OF CUPERTINO
ZONING DESIGNATION: HE4
LATITUDE (NAD 83): 37° 18' 58.99" N
LONGITUDE (NAD 83): 122° 01' 57.60" W
GROUND ELEVATION: 1248.6 AMSL

PROJECT INFORMATION

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES AND AUTHORITIES HAVING JURISDICTION

- 2016 CALIFORNIA ADMINISTRATIVE CODE, TITLE 24 PART 1
- 2016 CALIFORNIA BUILDING CODE, TITLE 24 PART 2
- 2018 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3
- 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4
- 2016 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5
- 2016 CALIFORNIA ENERGY CODE, TITLE 24 PART 6
- 2016 CALIFORNIA FIRE CODE, TITLE 24 PART 9
- ANSI/TIA-222-G
- 2016 NFPA 101, LIFE SAFETY CODE
- 2017 NFPA 70, NATIONAL ELECTRICAL CODE
- 2016 NFPA 72, NATIONAL FIRE ALARM CODE
- 2016 NFPA 13, SPRINKLER CODE
- 2013 AASHTO LTD-8
- STATE OF CALIFORNIA GENERAL ORDER NO. 178
- CITY/COUNTY ORDINANCES AND CODES

ACCESSIBILITY: FACILITY IS UNMANNED AND NOT FOR HUMAN REQUIREMENTS. HABITATION, DISABLED ACCESS NOT REQUIRED. IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 2, VOL. 1, CHAPTER 11B, DIVISION 2, SECTION 11B-203.5.

CODE COMPLIANCE

SHEET NO.	SHEET TITLE	REV.
T-1	TITLE SHEET	3
T-2	SYMBOLS, ABBREVIATIONS	3
T-3	GENERAL NOTES	3
C-1	TOPOGRAPHIC SURVEY, EXISTING CONDITIONS	1
A-1	SITE PLAN, ENLARGED ANTENNA LAYOUT, ENLARGED EQUIPMENT LAYOUT	3
A-2.0	ELEVATIONS	3
A-2.1	ELEVATIONS	3
A-3	DETAILS	3
S-1	STRUCTURAL NOTES, DETAILS	3
S-2	DETAILS	3
EP-1	SINGLE LINE DIAGRAM, EQUIPMENT GROUNDING DIAGRAM	3
EP-2	UTILITY PLAN, CONDUIT SCHEDULE, CIRCUIT DIAGRAM	3
EP-3	DETAILS	3
SP-1	SPECIFICATIONS	3
SP-2	SPECIFICATIONS	3
SP-3	SPECIFICATIONS	3

SHEET INDEX

1 General Notes

GENERAL NOTES

- CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND START OF CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS ARE FOUND, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FOR CLARIFICATIONS. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION BEFORE COMMENCEMENT OR RESUMPTION OF WORK.
- ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. NOTIFY THE ARCHITECT/ENGINEER OF ANY ABBREVIATIONS IN QUESTION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND LOCAL COMPANY SPECIFICATIONS AND LEGAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE CODE AND REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ARCHITECT/ENGINEER.
- LEGAL EXITS SHALL NOT BE BLOCKED AT ANY TIME.
- TEMPORARY PEDESTRIAN PROTECTION SHALL BE PROVIDED AS REQUIRED BY LOCAL CODES.
- THE ARCHITECT/ENGINEER SHALL BE CONSULTED IN ANY ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY STRUCTURE IS NECESSARY PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL VERIFY ACTUAL ROUTING OF CONDUIT, POWER AND FIBER CABLES GROUND CABLES AS SHOWN. CONTRACTOR SHALL ADD NEW CONDUIT AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CLEAN UP AND DISPOSAL-REMOVE DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE OWNER'S PROPERTY TO A LAWFUL LEGAL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO PERTAINING FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDERS UPON COMPLETION OF WORK. ALL CONSTRUCTION AREAS SHALL BE LEFT CLEAN AND FREE FROM DEBRIS. CLEAN

GENERAL NOTES

3 Concrete Notes

CONCRETE NOTES

- THE CONTRACTOR SHALL OBTAIN OSHA PERMITS FOR ANY VERTICAL EXCAVATION OVER 5'-0" DEEP INTO WHICH PERSONS MUST DESCEND.
- ALL DISSIMILAR METALLIC MATERIALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT GALVANIC ACTION, WHETHER DETAILED OR NOT.
- ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESURE TREATED WITH AN APPROVED PRESERVATIVE.

2 Site Work Notes

SITE WORK NOTES

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES AND CONDUCT UNDERGROUND UTILITY LOCATING AND MAPPING PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONSTRUCTION MANAGER ONLY UPON APPROVAL OF SPECIFIC UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING NEAR AROUND OR NEAR UTILITIES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.

4 Reinforcing Steel Notes

REINFORCING STEEL NOTES

- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 U.O.N.
- BARS SHALL BE CLEAN OF MUD, DIL OR OTHER COATINGS, LIKELY TO IMPAIR BONDING.
- ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
- REINFORCING STEEL SHALL BE SPICED AS SHOWN OR NOTED. SPICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

5 Steel Notes

STEEL NOTES

- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
- BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
- PIPE STEEL SHALL CONFORM TO ASTM A-53, GRADE B.
- PLATES SHALL CONFORM TO ASTM A-36.
- ALL STEEL PERMANENTLY EXPOSED TO WEATHER, (INCLUDING NUTS, BOLTS, WASHERS) SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

6 Welding Notes

WELDING NOTES

- THE QUALITY OF MATERIALS AND THE FABRICATION OF ALL WELDED CONNECTIONS SHALL BE IN CONFORMANCE WITH THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION.
- SPECIAL INSPECTION OF WELDING PER SECTION 1704 IS REQUIRED. A QUALIFIED AND CERTIFIED INSPECTOR SHALL BE PRESENT DURING SHOP AND FIELD WELDING OPERATIONS UNLESS OTHERWISE NOTED AND SHALL INSPECT ALL THE WORK AS REQUIRED BY AWS D1.1, SECTION 6.
- SPECIAL INSPECTION NEED NOT BE CONTINUOUS FOR THE FOLLOWING ITEMS, PROVIDED THE MATERIAL, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK. PERIODIC INSPECTIONS MAY BE MADE OF WORK IN PROGRESS AND A VISUAL INSPECTION OF ALL WELDS IS STILL REQUIRED.
 - SINGLE-PASS FILLET WELDS NOT EXCEEDING 3/16 INCH.
 - INSPECTORS SHALL PROCEED AND BE FAMILIAR WITH THE APPROVED WELDING PROCEDURE SPECIFICATIONS (WPS).
 - ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING PRE-QUALIFIED WELDING PROCEDURES.
 - THE INSPECTOR SHALL CONFIRM THE QUALIFICATION OF WELDERS. THE USE OF AWS QUALIFIED PROCEDURES, THE MANUFACTURER'S RECOMMENDED USE OF AUTOMATIC EQUIPMENT AND THE PROPER USE OF PREHEAT, IF REQUIRED.

7 Painting Notes

PAINTING NOTES

- EXTRA MATERIALS, DELIVER TO OWNER 1 QUART OF EACH COLOR AND TYPE OF FINISH COAT PAINT USED ON PROJECT, IN CONTAINERS, PROPERLY LABELED AND SEALED.
- MANUFACTURER SHALL BE TREMED COMPANY INCORPORATED, UNLESS NOTED OTHERWISE.
- MATERIAL COMPATIBILITY PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.
- FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
- REMOVE HARDWARE, AND SIMILAR ITEMS THAT ARE NOT TO BE PAINTED. MASK ITEMS THAT CANNOT BE REMOVED. REINSTALL ITEMS IN EACH AREA AFTER PAINTING IS COMPLETE.
- CLEAN AND PREPARE SURFACES IN AN AREA BEFORE BEGINNING PAINTING IN THAT AREA. SCHEDULE PAINTING SO CLEANING OPERATIONS WILL NOT DAMAGE HEAVY PAINTED SURFACES.
- APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, SAGS, BRUSH MARKS, ROLLER TRACKING, RUNS, STAGS, ROPENESS, OR OTHER SURFACE IMPERFECTIONS. CUT-IN SHARP LINE AND COLOR BREAKS.
- IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.
- SEE SPECIFICATIONS SECTION 06 00 00 FOR PAINTING AND COATING SPECIFICATIONS.

8 Light Pole Notes

LIGHTING NOTES

- LUMINAIRES, JUNCTION BOXES, 1-1/2" RIGID METAL CONDUIT, 1-1/2" PVC CONDUIT, AND POLES SHALL COMPLY WITH SECTION 06 OF THE CALTRANS STANDARD SPECIFICATIONS AND CITY OF CUPERTINO STANDARD DETAILS.
- LUMINAIRES MAY BE CUT OFF, TYPE M-II OR M-III (E.S. LIGHT DISTRIBUTION, UNLESS OTHERWISE NOTED, AT CUL-DE-SACS USE TYPE M-II OR BETTER, UNLESS OTHERWISE NOTED).
- THE SERVICE SUPPLYING ELECTRIC CIRCUIT SHALL BE FUSED AND GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AT THE FIRST JUNCTION BOX. AN ADDITIONAL FUSE IS REQUIRED AT EACH ELECTROPOLE ON ANY UNGROUNDED CONDUCTOR. CONDUCTORS SHALL BE #10 UNLESS OTHERWISE NOTED AND ALL SERVICE SHALL BE 120 VOLT PHOTO ELECTRIC UNIT CONTROL IS TO BE LOCATED AT THE LUMINAIRE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN A SERVICE POINT CONFIRMATION AND A CLEARANCE FROM THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLING ANY FOUNDATIONS, POLES, CIRCUITS, AND CONDUCTORS. UNDERGROUND SERVICE ALERT SHALL BE USED TO VERIFY LOCATION OF OTHER UNDERGROUND UTILITIES.
- PRIOR TO PLACING ANY WORK OTHER THAN CURB AND GUTTER, THE CONTRACTOR SHALL NOTIFY THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT WITH A PACIFIC GAS AND ELECTRIC COMPANY ELECTRICAL POWER DESIGN WITH ELECTRICAL SERVICE POINTS AND POLE NUMBERS.
- A CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT CONNECTION ORDER IS REQUIRED TO ENERGIZE ANY ELECTROPOLE OR EQUIPMENT (PROVIDED BY THE CITY OF CUPERTINO AFTER COMPLETION AND INSPECTION FOR SUBMITTAL TO PACIFIC GAS AND ELECTRIC).
- CONTACT PACIFIC GAS AND ELECTRIC FOR ADDITIONAL REQUIREMENTS AND CONTACT THE CITY OF CUPERTINO AFTER COMPLETION AND INSPECTION FOR SUBMITTAL TO PACIFIC GAS AND ELECTRIC.
- THE CONTRACTOR SHALL SUPPLY TO THE CITY OF CUPERTINO FOR APPROVAL, MANUFACTURER'S SUBMITTALS FOR ALL NEW LUMINAIRES.
- ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL OVERLOAD PROTECTION (FUSES) SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- WHENEVER AN INSTALLATION IS NEAR ANY OVERHEAD WIRES/ CONDUCTORS, A CLEARANCE MUST BE OBTAINED FROM PACIFIC GAS AND ELECTRIC PRIOR TO INSTALLATION.

CLIENT



MODUS, INC.
3810 CALIFORNIA STREET #1000
SAN FRANCISCO, CA 94118



VERIZON WIRELESS

2705 MITCHELL DRIVE, SUITE B
SANTA CLAYTON, CA 94501

CONTRACT NO.

SF_CUPERO01
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 058-17-018



REV	DATE	ISSUE
1	10/18/2017	80% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

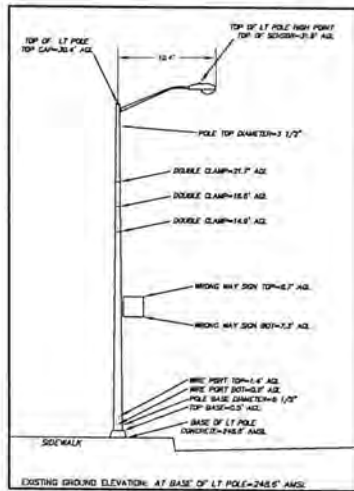
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DATE

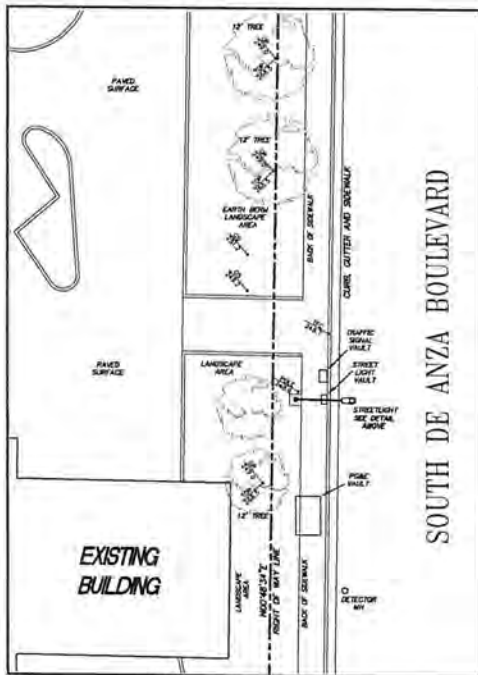
GENERAL NOTES

DATE

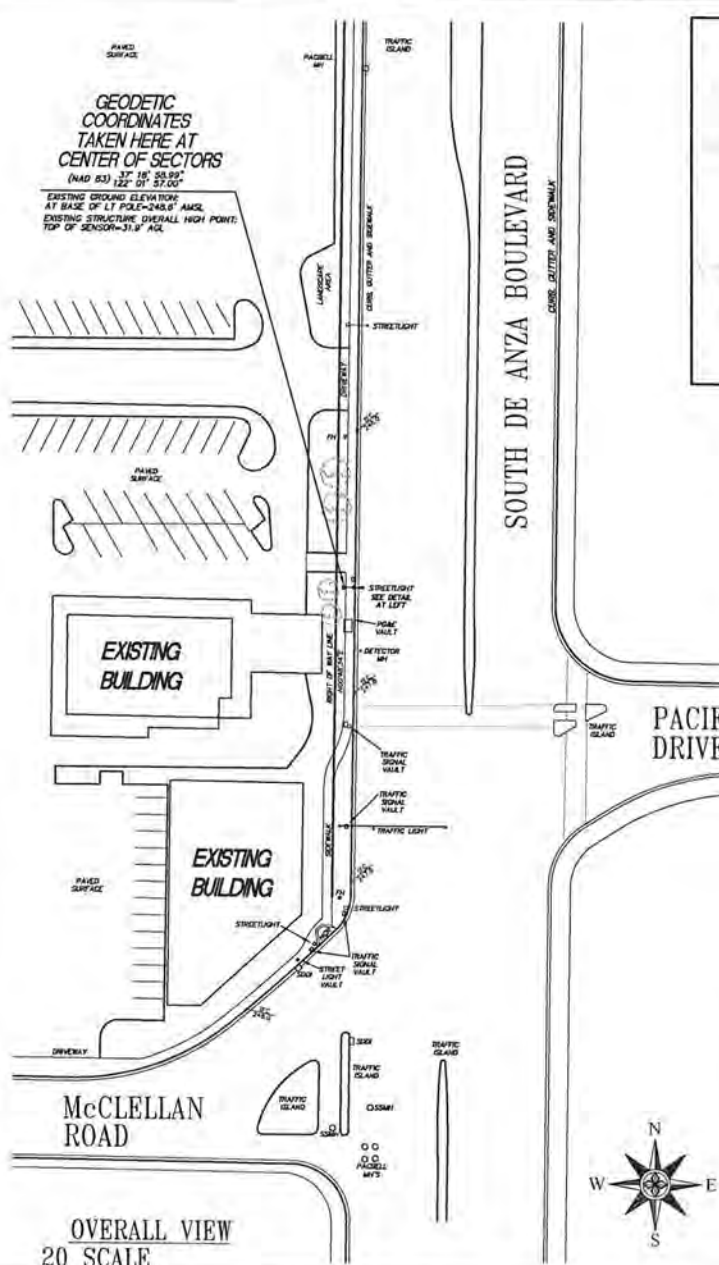
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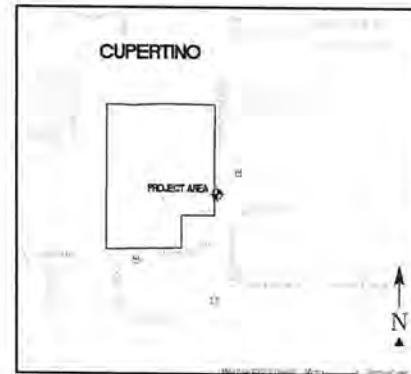
POLE DETAIL
5 SCALE 1" = 5'



PROJECT AREA
10 SCALE



OVERALL VIEW
20 SCALE



VICINITY MAP
N.T.S.

PROPERTY INFORMATION

SF_CUPER001
 SITE: CPSC001
 10465 SOUTH DE ANZA BOULEVARD
 CUPERTINO, CA 95014

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM STATE PLANE COORDINATES ZONE 10, DETERMINED BY GPS OBSERVATIONS.

BENCHMARK

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING CORRS TO SEPARATIONS CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.12' (NAVD83)

UTILITY NOTES

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

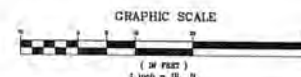
SURVEYOR'S NOTES

ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

LEGEND

- | | | | |
|-----|------------------------|----|-------------------------------|
| DL | DRAIN INLET | WT | WATER CONTROL VALVE |
| TF | TOP FACE OF CURB | FR | FIRE HYDRANT |
| W/P | W/ POINT OF WAY | SC | SET CONTRACTOR FOUND AS NOTED |
| ED | EDGE OF PAVED DRIVEWAY | PO | POWER POLE |
| TS | TOP OF SURFACE | LP | LIGHT POLE |
| OS | OSOLENILE | ET | ELECTRICAL TRANSFORMER |
| TP | TOP OF PARAPET | ED | EDGE OF DRIVEWAY |
| ED | EDGE OF DRIVEWAY | EC | ELECTRICAL CONTROL CABINET |
| WB | WATER VALVE | TE | TELEPHONE TELEPHONE MOUNT |
| MA | MANHOLE | TV | TELEPHONE VALVE |
| GC | GEODETIC COORDINATES | TM | TELEPHONE MANHOLE |
| SP | SPOT ELEVATION | GV | GAS VALVE |
| DA | DISH ANTENNA | GW | GAS WATER |
| | | PL | PROPERTY LINE |
| | | CL | CHAIN LINK FENCE |

SURVEY DATE
8/15/16



ISSUE STATUS	DATE	DESCRIPTION	REV.
	8/24/2016	SITE PLAN	

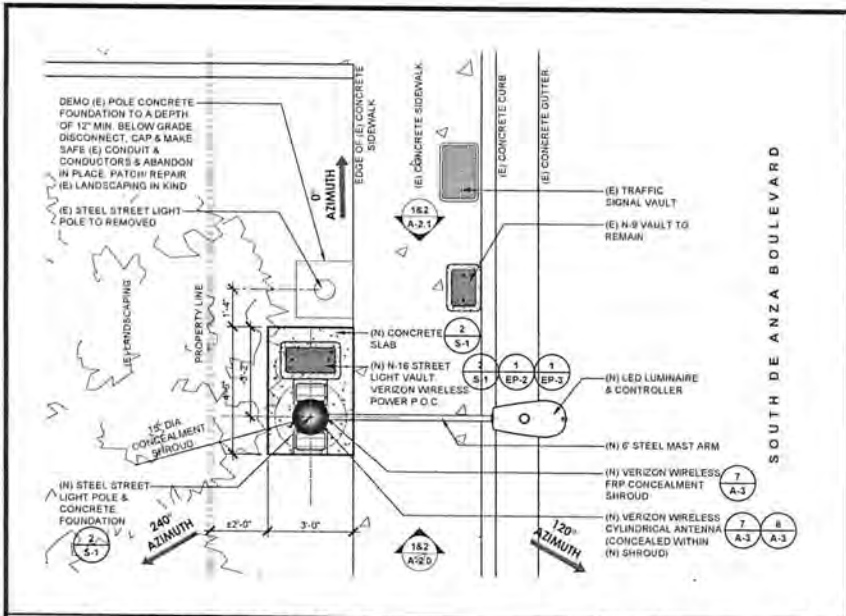
HAYES
Land Surveying
And Mapping
7280 HAYDEN COURT
CUPERTINO, CA 95019

verizon
2785 MITCHELL DRIVE
WALNUT CREEK, CA 94598
OFFICE: 925-279-6000
(925) 279-6333

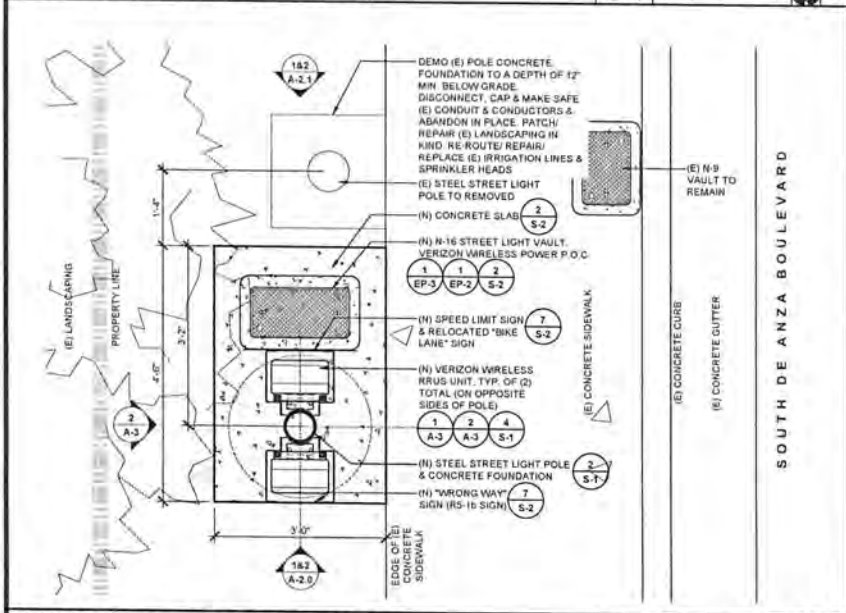
TOPOGRAPHIC SURVEY
EXISTING CONDITIONS

SF_CUPER001
CPSC001
10465 SOUTH DE ANZA BOULEVARD
CUPERTINO, CA 95014

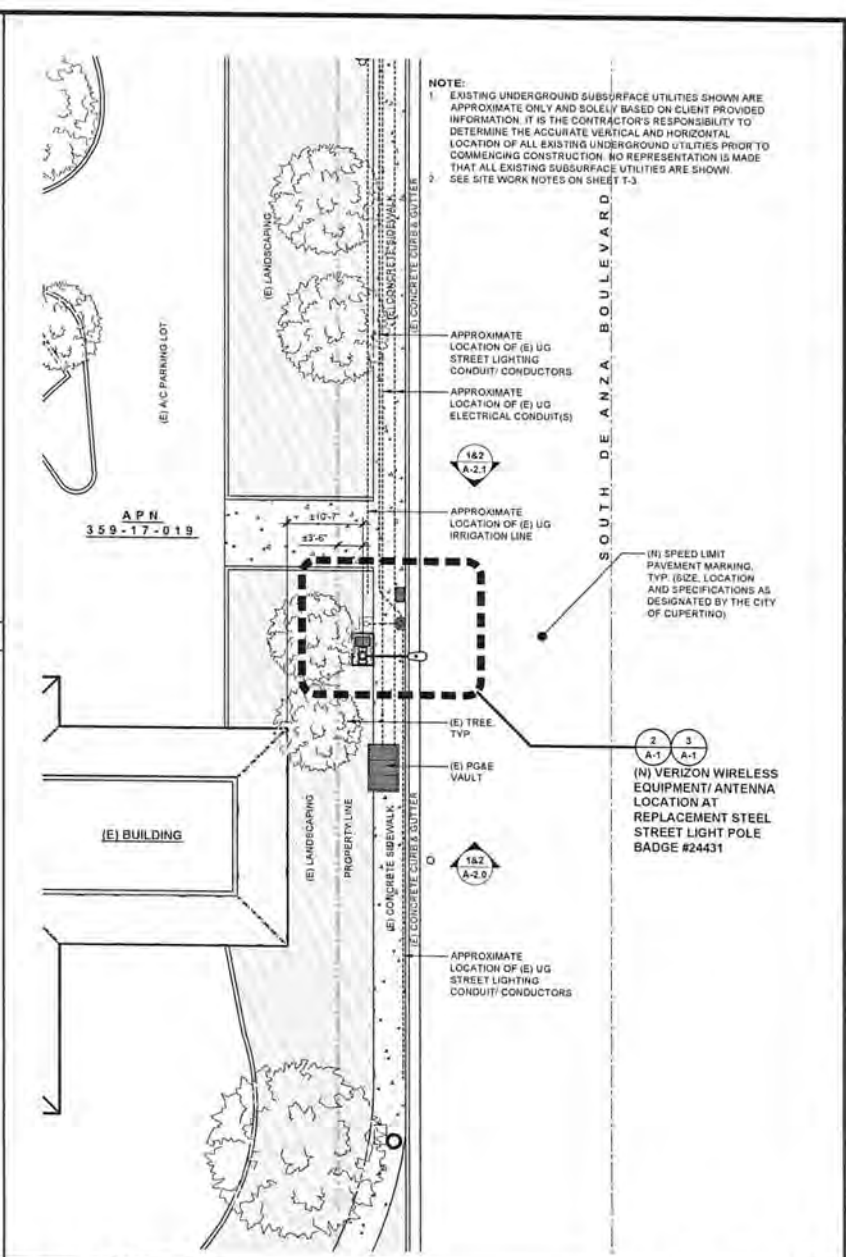
C-1
SHEET 1 of 1



ENLARGED ANTENNA LAYOUT SCALE: 1/2"=1'-0" 2



ENLARGED EQUIPMENT LAYOUT SCALE: 1/4"=1'-0" 3



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

NOTE:
 1. EXISTING UNDERGROUND SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE ONLY AND SOLELY BASED ON CLIENT PROVIDED INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACCURATE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING SUBSURFACE UTILITIES ARE SHOWN.
 2. SEE SITE WORK NOTES ON SHEET T-3.

JAMES VACCARO ARCHITECT, INC.
 411 COOKSBY WAY, SUITE C
 FAYETTEVILLE, CA 94501
 415.886.8408 FAX: 415.886.4111 FAX
 WWW.JVARCHITECT.COM
 WWW.JVARCHITECT.COM

CLIENT

MODUS, INC.
 240 BROADWAY STREET, 8TH FLOOR
 SAN FRANCISCO, CA 94104

CONSULTANTS

VERIZON WIRELESS
 1700 MITCHELL DRIVE, SUITE 7
 IRVINE, CA 92614

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 PUBLIC ROW ADJACENT TO
 10465 S. DE ANZA BOULEVARD
 CUPERTINO, CA 95014
 APN: PUBLIC ROW ADJACENT
 TO 359-17-019

JAMES VACCARO
 C-33229
 12/31/2019

REV	DATE	ISSUE
1	10/18/2017	80% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

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SITE PLAN, ENLARGED ANTENNA LAYOUT, ENLARGED EQUIPMENT LAYOUT

DATE: 03/26/2018

A-1

CLIENT



MODUS, INC.
230 ROCKY HILL DRIVE #107 FLORISS
SAN FRANCISCO, CA 94133



VERIZON WIRELESS
270 MITCHELL DRIVE, SUITE 8
WALNUT CREEK, CA 94598
CONSULTANTS

SF_CUPER001
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CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



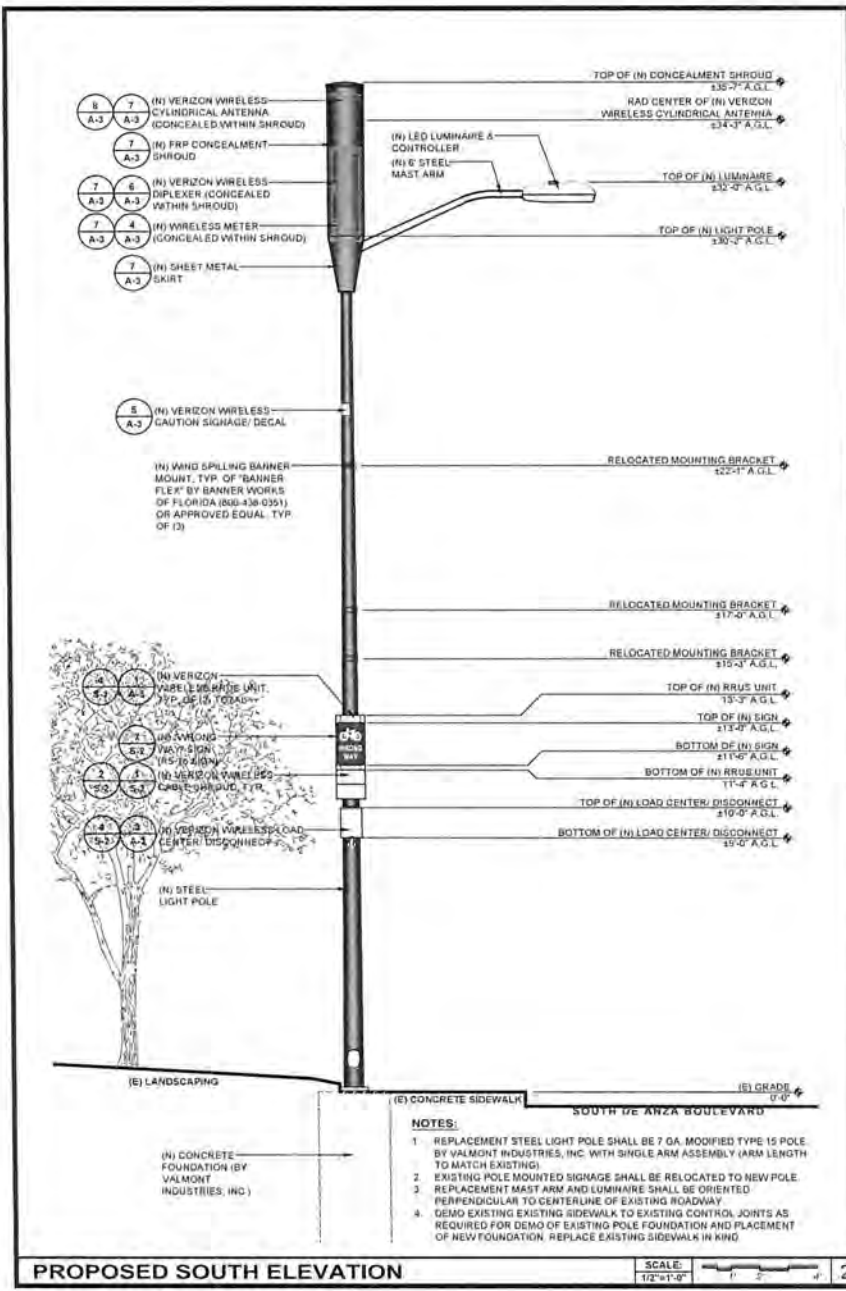
REV	DATE	ISSUE
1	10/16/2017	50% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

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ELEVATIONS

DATE PLOTTED

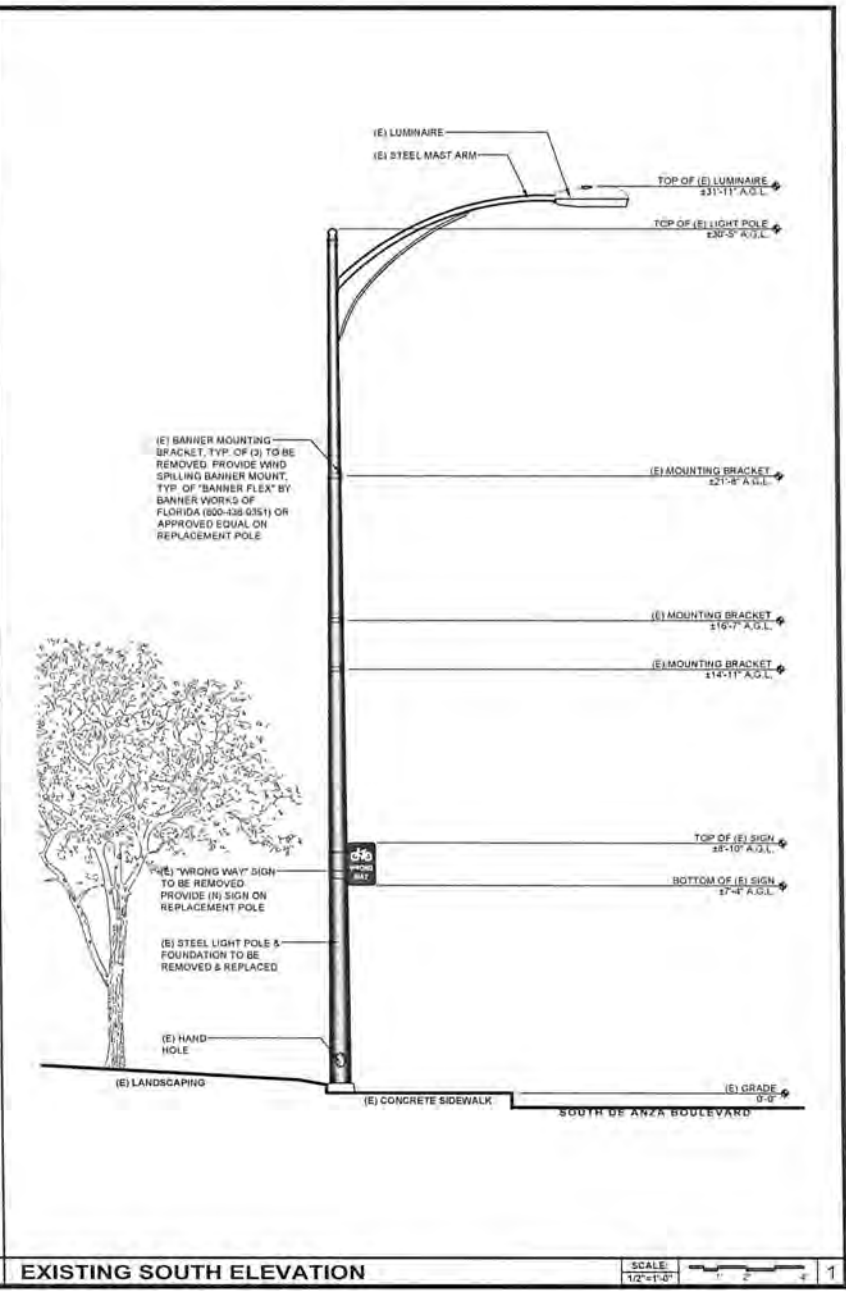
A-2.0



- NOTES:**
1. REPLACEMENT STEEL LIGHT POLE SHALL BE 7 GA. MODIFIED TYPE 15 POLE BY VALMONT INDUSTRIES, INC. WITH SINGLE ARM ASSEMBLY (ARM LENGTH TO MATCH EXISTING).
 2. EXISTING POLE MOUNTED SIGNAGE SHALL BE RELOCATED TO NEW POLE.
 3. REPLACEMENT MAST ARM AND LUMINAIRE SHALL BE ORIENTED PERPENDICULAR TO CENTERLINE OF EXISTING ROADWAY.
 4. DEMO EXISTING EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING POLE FOUNDATION AND PLACEMENT OF NEW FOUNDATION. REPLACE EXISTING SIDEWALKS IN R/RD.

PROPOSED SOUTH ELEVATION

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



EXISTING SOUTH ELEVATION

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

CLIENT



MODUS INC.
 240 STOCKTON STREET, 4RD FLOOR
 SAN FRANCISCO, CA 94102



VERIZON WIRELESS
 2100 MYERS BL, DRIVE SUITE 4
 WILMINGTON, CA 94095

CONSULTANTS

SF_CUPER001
 CPSC001
 PUBLIC ROW ADJACENT TO
 10465 S. DE ANZA BOULEVARD
 CUPERTINO, CA 95014
 APN: PUBLIC ROW ADJACENT
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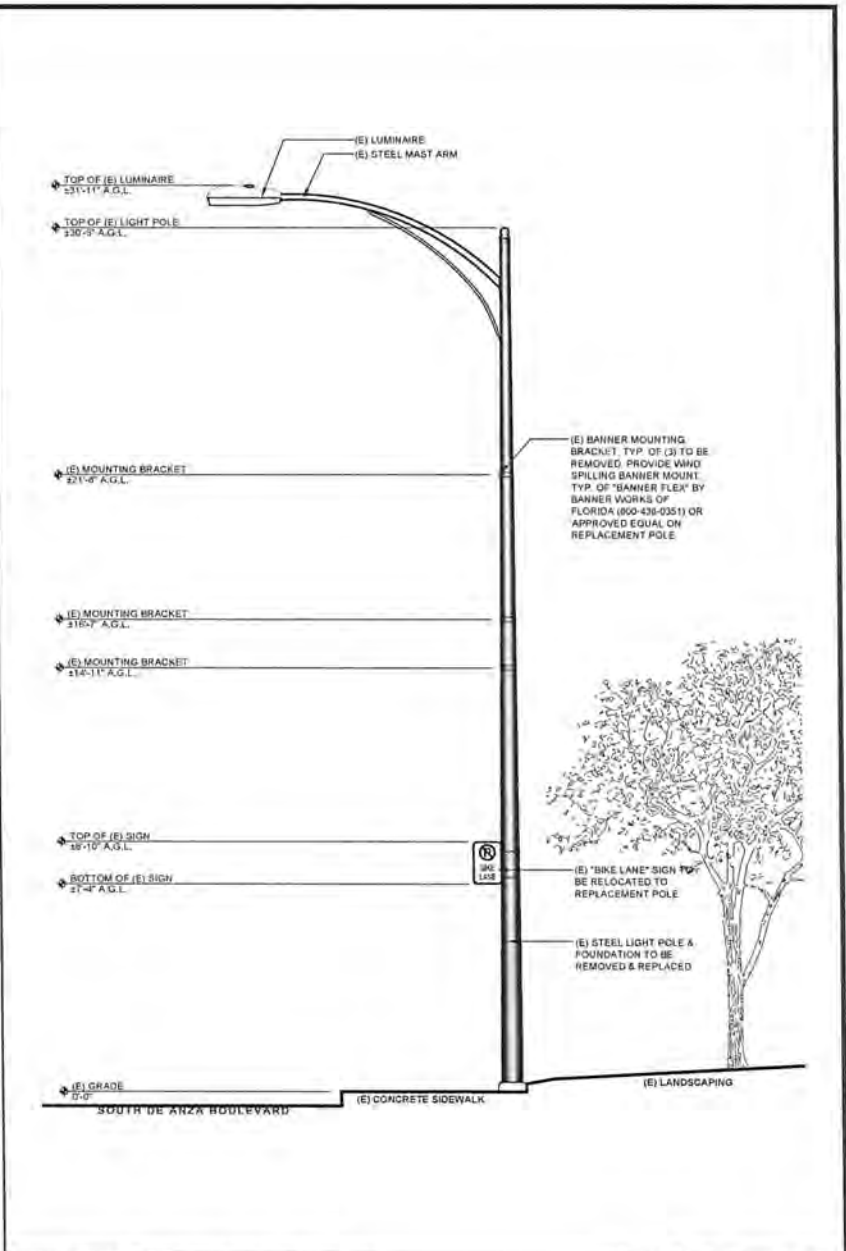
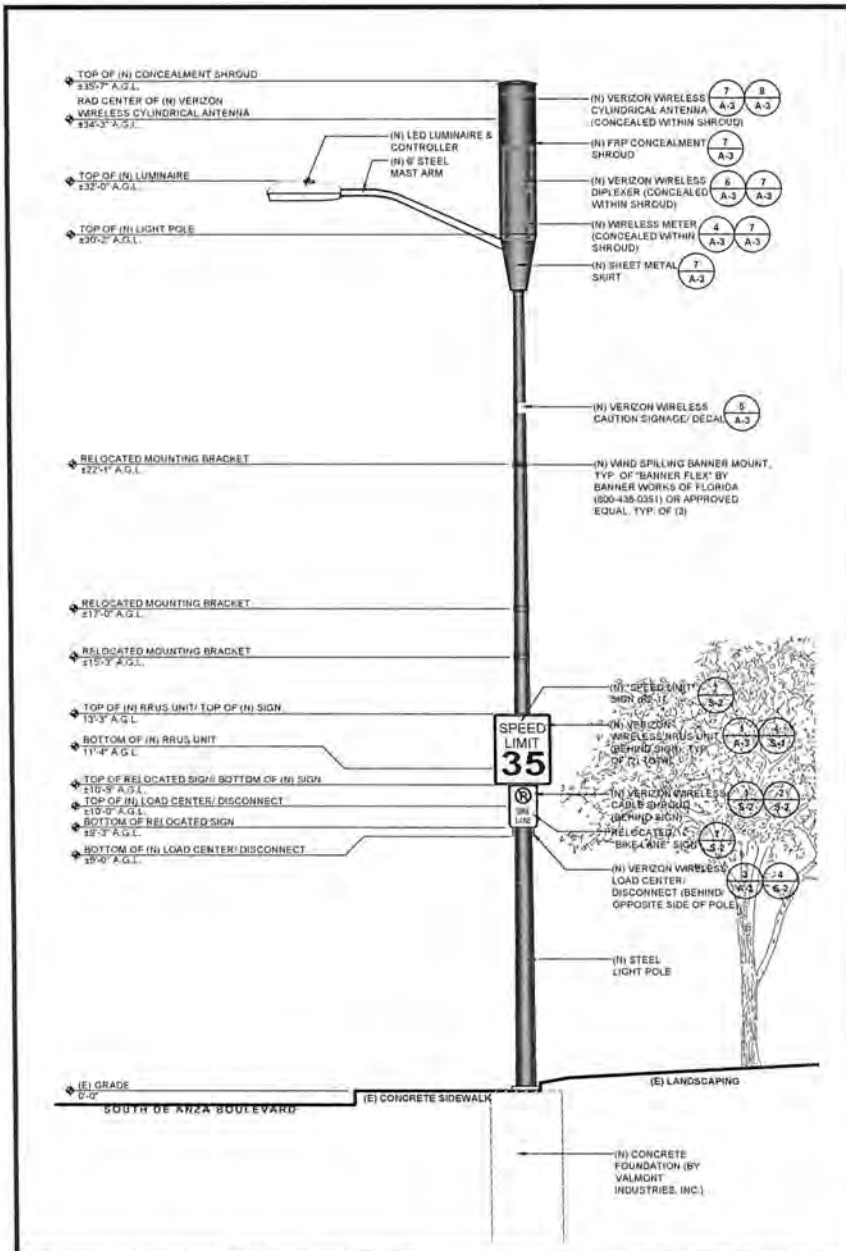
REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

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ELEVATIONS

SHEET NUMBER

A-2.1

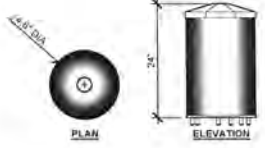


PROPOSED NORTH ELEVATION

EXISTING NORTH ELEVATION

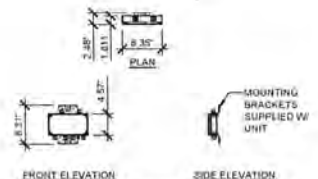
SCALE: 1/2"=1'-0"

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



CYLINDER ANTENNA DIMENSIONS	
DIAMETER	±14.625"
HEIGHT	±24"
CYLINDER ANTENNA WEIGHT	
ANTENNA WEIGHT	±27 LBS.

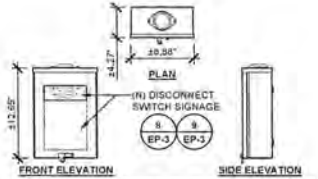
CYLINDER ANTENNA SCALE: 8 N.T.S.



CBC1923T-4310 DIPLEXER DIMENSIONS	
HEIGHT	±4.57"
WIDTH	±4.87"
DEPTH	±2.40"
CBC1923T-4310 DIPLEXER WEIGHT	
DIPLEXER	±6 LBS.

- NOTES:**
1. COMSCOPE PART# E11F13P06
 2. ALL CONNECTORS SHALL BE WEATHERPROOFED.
 3. INSTALL IN STRICT ACCORDANCE WITH COMSCOPE INSTALLATION MANUAL.

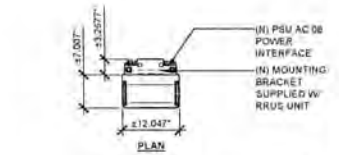
DIPLEXER SCALE: 6 N.T.S.



SQUARE D 00612L 100RB LOAD CENTER DIMENSIONS	
HEIGHT	±11.20"
WIDTH	±28.58"
DEPTH	±4.27"
SQUARE D 00612L 100RB LOAD CENTER WEIGHT	
WEIGHT	±10 LBS.

- NOTES:**
1. SQUARE D PART# 00612L 100RB
 2. NEMA 3R OUTDOOR RATED, 100 A, 120/240 VOLT, 1 PHASE LOAD CENTER.
 3. INSTALL IN STRICT ACCORDANCE WITH SQUARE D SCHNEIDER ELECTRIC INSTALLATION MANUAL.

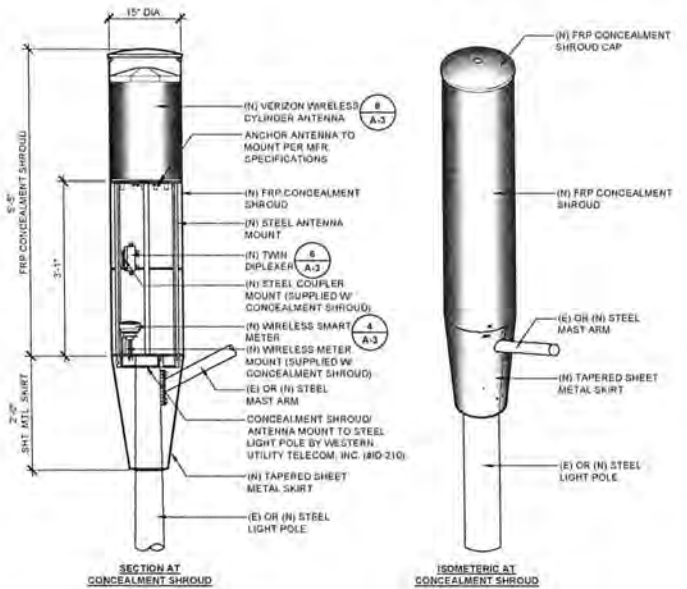
DIST. PANEL/ DISCONNECT SCALE: 3 N.T.S.



RRUS 32 UNIT DIMENSIONS	
HEIGHT W/ HANDLES	±23.07"
HEIGHT W/ NO HANDLES	±17.04"
WIDTH	±17.04"
DEPTH	±4.87"
RRUS 32 UNIT WEIGHT	
UNIT W/ PSU AC DB	±65 LBS.
RRUS 32 UNIT CLEARANCE REQUIREMENTS	
ABOVE/ BELOW	16" MIN

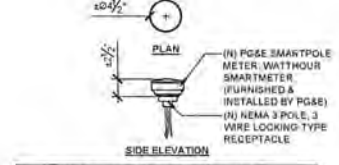
- NOTES:**
1. ERICSSON PART# RRUS 32
 2. ALL CONNECTORS SHALL BE WEATHERPROOFED.
 3. INSTALL IN STRICT ACCORDANCE WITH ERICSSON INSTALLATION MANUAL.
 4. PAINT SOLAR SHIELD & ALL MOUNTING COMPONENTS TO MATCH POLE.
 5. RRUS HANDLES TO BE REMOVED PRIOR TO INSTALLATION.

RRUS 32 UNIT SCALE: 1 N.T.S.



- NOTES:**
1. NEW FRP CONCEALMENT SHROUD, GALVANIZED SHEET METAL SKIRT, ANTENNA/ LIGHT POLE MOUNT AND MOUNTING COMPONENTS BY WESTERN UTILITY TELECOM, INC. (PHONE: 503-567-0101) (ID#210).
 2. FRP CONCEALMENT SHROUD MOUNT TO LIGHT POLE BY WESTERN UTILITY TELECOM, INC.
 3. PAINT NEW FRP SHROUD AND EXPOSED MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 4. POWDER COAT NEW GALVANIZED SHEET METAL SKIRT AND EXPOSED MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 5. GROUND NEW ANTENNA PER MANUFACTURER'S SPECIFICATIONS.

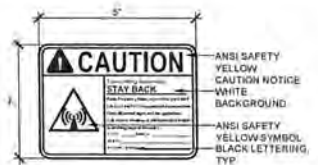
CONCEALMENT SHROUD SCALE: 7 N.T.S.



PG&E SMARTPOLE METER DIMENSIONS	
DIAMETER	±4.5"
HEIGHT	±22.5"
PG&E SMARTPOLE METER WEIGHT	
WEIGHT	±3 LBS.

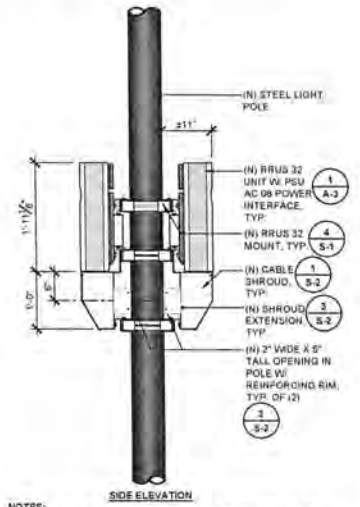
- NOTES:**
1. PG&E CODE# M341400
 2. PG&E TO PERFORM RF SIGNAL TEST.
 3. INSTALL IN STRICT ACCORDANCE WITH PG&E UTILITY BULLETIN FOR SMARTPOLE METER SERVICE.

WIRELESS METER SCALE: 4 N.T.S.



- NOTES:**
1. OUTDOOR RATED SELF ADHESIVE VINYL DECAL WITH UV, CHEMICAL, ABRASION AND MOISTURE RESISTANCE.
 2. POST SIGN/ DECAL 9" OFF BOTTOM OF NEW ANTENNA.
 3. CONTRACTOR TO CONFIRM SPECIFIC SIGN REQUIREMENTS WITH VERIZON WIRELESS, THE CITY OF CUPERTINO, FCC AND AUTHORITIES HAVING JURISDICTION PRIOR TO FABRICATION.
 4. SIGN SHALL LIST DISPLAY OWNERSHIP COMPANY'S NAME, CONTACT NUMBER AND SPECIFIC SITE IDENTIFICATION.
 5. SIGN COLORS, SYMBOLS AND LAYOUT SHALL CONFORM TO ANSI Z535.1, ANSI Z535.2 AND ANSI O95 2-2007.

SIGNAGE/ DECAL SCALE: 5 N.T.S.



- NOTES:**
1. PRIME AND PAINT RRUS 32 UNITS, CABLE SHROUDS, TUBE ASSEMBLY AND MOUNTING COMPONENTS TO MATCH LIGHT POLE.
 2. SEE SPECIFICATIONS SECTION 99 00 00 FOR PAINTING AND COATING SPECIFICATIONS.

RRUS UNIT MOUNT ELEV. SCALE: 2 N.T.S.

JAMES VACCARO ARCHITECT, INC.
 1110 CENTER ST. UNIT 10
 FAYETTEVILLE, NC 28404
 704.336.2478 (FAX) 704.336.4755 (CELL)
 704.336.4755 (OFFICE)
 WWW.JVARCHITECT.COM

MODUS, INC.
 240 BUCKINGHAM STREET, WEST FLORENCE
 SAN FRANCISCO, CA 94102

verizon

VERIZON WIRELESS
 2185 MICHELLE DRIVE, SUITE B
 WARRICK CENTER, CA 95090

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 PUBLIC ROW ADJACENT TO
 10465 S. DE ANZA BOULEVARD
 CUPERTINO, CA 95014
 APN: PUBLIC ROW ADJACENT
 TO 359-17-019

PROJECT RECORD SHEET
 JAMES VACCARO ARCHITECT, INC.
 1110 CENTER ST. UNIT 10
 FAYETTEVILLE, NC 28404
 704.336.4755 (OFFICE)
 704.336.4755 (CELL)
 WWW.JVARCHITECT.COM

REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

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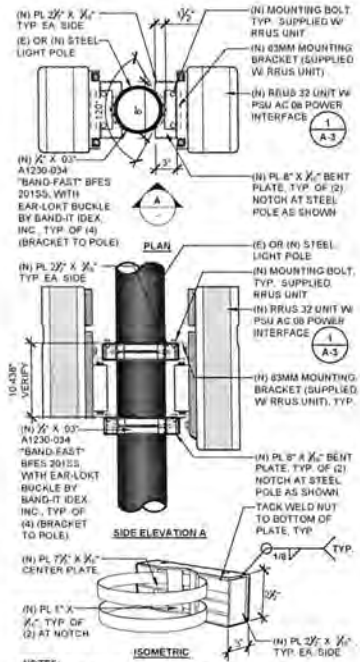
DETAILS

SHEET NUMBER:

A-3

NOT USED

SCALE: N.T.S. 3

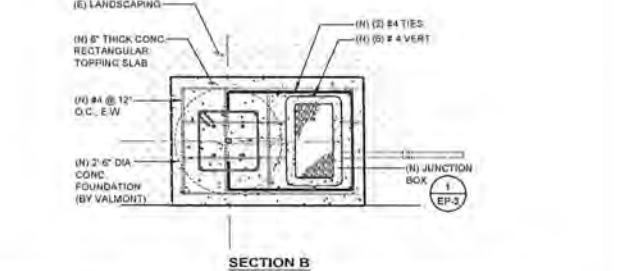
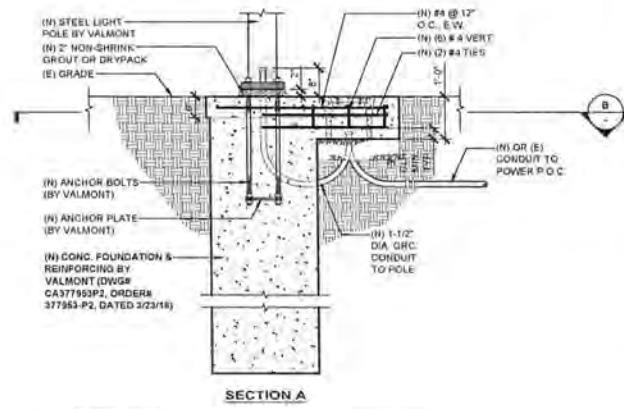
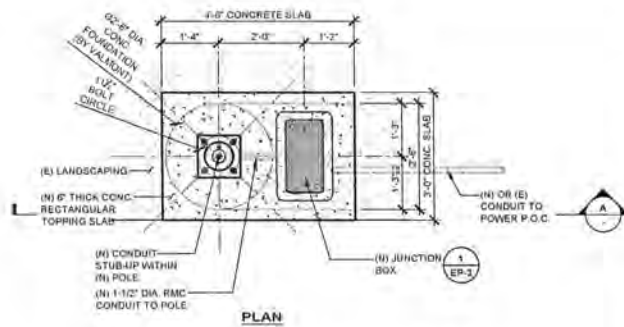


- NOTES:**
- HOT-DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION
 - PROVIDE STEEL SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - PROVIDE MOCK-UP FOR REVIEW AND APPROVAL TO ENSURE PROPER CLEARANCE FOR PSU ACDS UNIT
 - PRIME AND PAINT MOUNTING COMPONENTS WITH THEMIC EXTERIOR PAINT COATING TO MATCH POLE
 - WELD ALL STEEL-PLATE COMPONENTS WITH $\frac{1}{8}$ " FILLET WELDS

RRUS 32 MOUNTING

SCALE: N.T.S. 4

LIGHT POLE FOUNDATION TOPPING SLAB



- NOTES:**
- DEMO EXISTING SIDEWALK TO EXISTING CONTROL JOINTS AS REQUIRED FOR DEMO OF EXISTING AND PLACEMENT OF NEW FOUNDATION AND TOPPING SLAB. REPLACE EXISTING SIDEWALK IN KIND.
 - PROTECT EXISTING CONCRETE CURBS IN PLACE.
 - ANCHOR BOLTS AND RACESWAYS SHALL BE SECURED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
 - USE POLE MANUFACTURER PROVIDED TEMPLATE FOR PLACEMENT OF ANCHOR BOLTS. REMOVE ALL GREASE, OIL, DIRT AND CONTAMINANTS FROM ANCHOR BOLTS WITH SUITABLE SOLVENT. CENTER ANCHOR BOLT OR OUP ON CONCRETE FOUNDATION. PLACE ANCHOR BOLTS IN A PLUMB POSITION. POINT HOOKS TOWARD THE CENTER OF THE FOUNDATION. VERIFY REQUIRED ANCHOR BOLT PROJECTION.
 - CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED PRIOR TO ERECTION OF NEW LIGHT POLE.
 - THE FOUNDATION SHALL CURE A MINIMUM OF (7) DAYS PRIOR TO INSTALLATION OF POLE.

Structural Notes

- GENERAL NOTES**
- APPLICABLE CODES: 2016 CALIFORNIA BUILDING CODE (CBC), 2013 AASHTO LTS-4, TIA 222, REVISION G.
 - ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, APPLICABLE AUTHORITY HAVING JURISDICTION CODES, AND REQUIREMENTS OF THE CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS.
 - THE CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE AGENCIES INFORMED OF THEIR SCHEDULE.
 - GENERAL CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS WITH DRAWINGS OF OTHER DISCIPLINES WITH REFERENCE TO MATERIALS, LAYOUT, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER FOR DIRECTION.
 - THE DRAWINGS SHALL NOT BE SCALED. ALL WORK SHALL BE GOVERNED BY EXISTING FIELD DIMENSIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN AND BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 - DETAILS OF CONSTRUCTION NOT INDICATED OR NOTED SHALL BE CONSIDERED OF THE SAME CHARACTER SHOWN FOR SIMILAR OR EXISTING CONSTRUCTION.
 - THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITY LINES AND CONNECTIONS INCLUDING SEWER, WATER, GAS, AND ELECTRIC SERVICES BEFORE AND DURING THE WORK.
 - CONTRACTOR SHALL COORDINATE THEIR WORK WITH CITY REQUIREMENTS.
 - DESIGN DATA:
DESIGN CODES: 2016 CBC, TIA 222 REVISION G, 2013 AASHTO LTS-4
SEISMIC IMPORTANCE FACTOR $I_p = 1.0$
OCCUPANCY CATEGORY # II
MAPPED SPECTRAL RESPONSE:
ACCELERATIONS:
 $S_s = 1.345g$ $S_1 = 0.717g$
SITE CLASS = D
SITE COEFFICIENT $F_a = 1.00$
SITE COEFFICIENT $F_v = 1.50$
WIND SPEED = 100 MPH (3-SECOND GUSTS) PER 2013 AASHTO LTS-4
 - CONTRACTOR SHALL SUBMIT STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

- CONCRETE NOTES**
- CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI. DESIGN BASED ON 2,500 PSI (NO SPECIAL INSPECTION REQUIRED).
 - SLEEPS SHALL BE NOT LESS THAN 2" AND NOT EXCEED 4".
 - CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED BETWEEN PREDETERMINED CONSTRUCTION JOINTS. CONCRETE SHALL BE OF A CONSISTENCY TO PERMIT PLACING COMPLETELY AROUND REINFORCING BARS AND AGAINST FORMS.
 - EXPOSED SURFACES OF CONCRETE SHALL BE KEPT MOIST OR CURED BY PROTECTIVE COVERINGS APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - FORMS SHALL BE TIGHT, CLEAN AND WETTED BEFORE PLACING CONCRETE.

- REINFORCING STEEL NOTES**
- REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 40 FOR #4 AND SMALLER, GRADE 60 FOR #6 AND LARGER. THE WIRES TO BE 16 GA. OR HEAVIER, BLACK ANNEALED.
 - REINFORCING BARS SHALL BE FREE FROM LOOSE RUST OR ANY OTHER COATING WHICH WILL REDUCE BOND.
 - REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN A MANNER WHICH WILL DAMAGE THE MATERIAL, AND SHALL BE ACCURATELY PLACED AND POSITIVELY SECURED.
 - MORTAR BLOCKS OR OTHER APPROVED METHOD OF SUPPORT SHALL BE USED AT SLABS-ON-GRADE.

- STRUCTURAL STEEL NOTES**
- MATERIALS:**
ALL STRUCTURAL STEEL: ASTM A588, U.O.B.
STEEL PIPE: ASTM A500, GRADE B
ANCHOR BOLTS: ASTM F1554, GRADE 56
MACHINE BOLTS: ASTM A307
HEXAGON NUTS: ASTM A194 2H OR ASTM A563 0H
WASHERS: ASTM F436
 - ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC STANDARDS BY A LICENSED FABRICATOR EMPLOYING CERTIFIED WELDERS.
 - WELDING SHALL CONFORM TO APPLICABLE SECTIONS OF LATEST AWS STRUCTURAL WELDING CODE AND SHALL BE DONE BY CERTIFIED WELDERS.
 - STEEL FABRICATOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF SHOP DRAWINGS PRIOR TO FABRICATION.
 - ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - SUPPLY AND INSTALL FASTENERS, FRAMING MEMBERS AND ANCHORS REQUIRED FOR MOUNTING AND ATTACHMENT OF EQUIPMENT.

- REINFORCING RIM WELDING NOTES**
- WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER. ALL WORK SHALL BE IN CONFORMANCE WITH THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1 LATEST EDITION.
 - PREPARE POLE SURFACE. GRIND SURFACE TO BE WELDED WITH A SILICON BRASS WHEEL. PRIOR TO WELDING TO REMOVE GALVANIZING WHICH MAY OTHERWISE BE CONSUMED IN THE WELD METAL, APPLY ANTI-SPLATTER COMPOUND AFTER GRINDING.
 - MINIMIZE TEMPERATURE RISE ON THE INSIDE SURFACE OF THE LIGHT POLE AND VOLTAGE ANY REINFORCING ZINC WITHIN THE BASE METAL WITH MINIMUM SPLATTER.
 - APPLY DAILY A-STICK ZINC COATING TO ALL UNPROTECTED SURFACES. UPON COMPLETION OF WELDING, APPLY SECOND COAT LAYER OF COLD GALVANIZING SPRAY COMPOUND CONTAINING A MINIMUM ZINC CONTENT OF 95%. APPLY A FINAL COAT OF THEMIC EXTERIOR PAINT COATING TO MATCH POLE.

SCALE: N.T.S. 2

STRUCTURAL NOTES

JAMES VACCARO
ARCHITECT, INC.
4150 BOWEN WAY SUITE C
FAYETTEVILLE, CA 95744
415-920-5000 FAX 415-920-5001
WWW.JVARCHITECT.COM

CLIENT
MODUS, INC.
200 STOCKTON STREET, 10TH FLOOR
SAN FRANCISCO, CA 94102

verizon

VERIZON WIRELESS
2100 ARDENWELL DRIVE SUITE 1
WALNUT CREEK, CA 94598

CONSULTANTS
STRUCTURAL ENGINEER
JAMES VACCARO, P.E.
1410 14th AVENUE
HEALINGWELL, CA 94542
CONTACT NUMBER: (415) 920-5001

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CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
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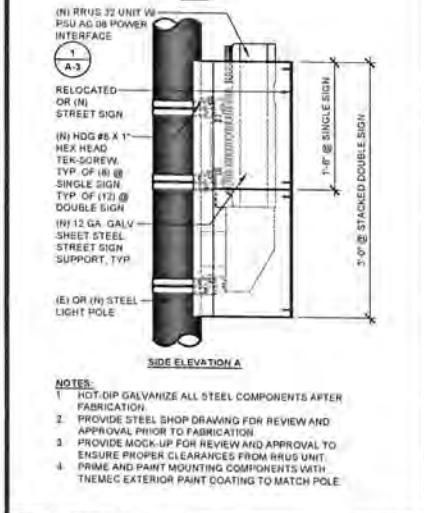
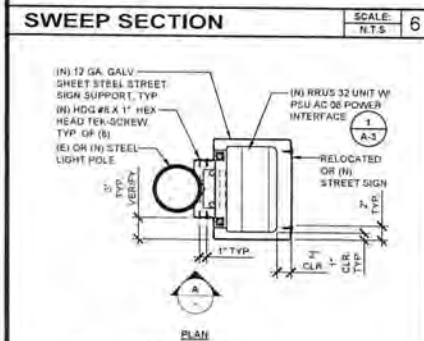
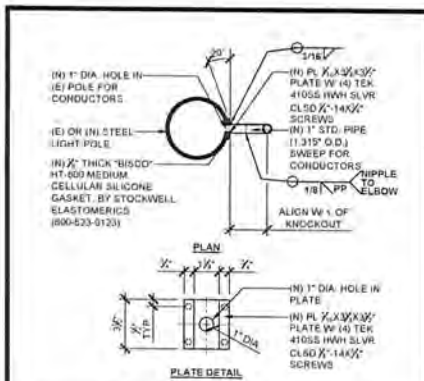
REV	DATE	ISSUE
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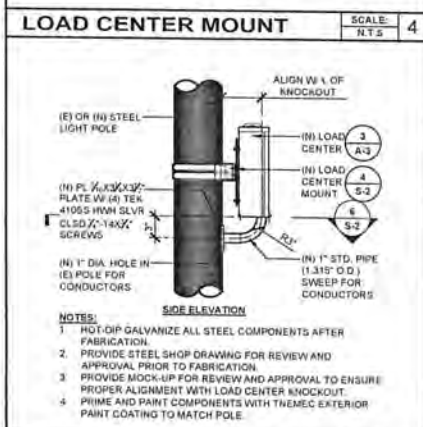
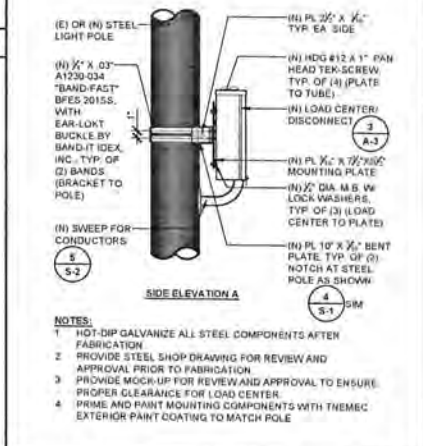
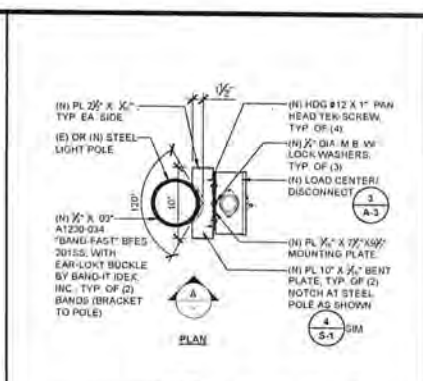
STRUCTURAL NOTES, DETAILS

DATE: 10/18/2017

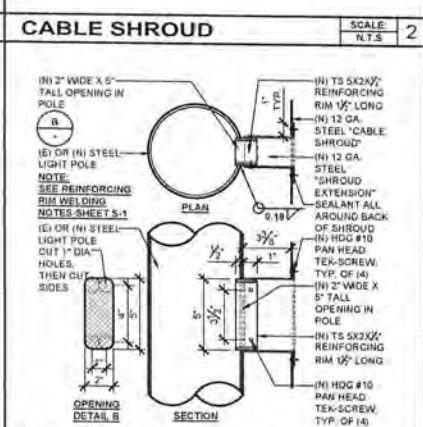
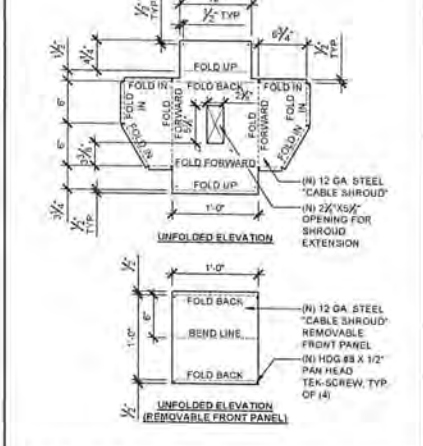
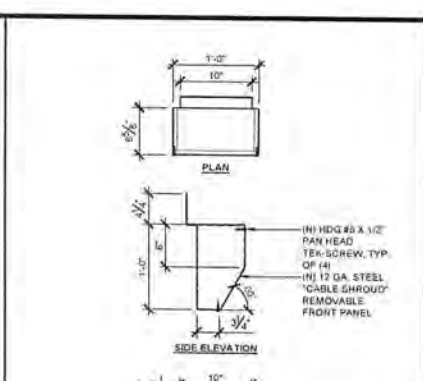
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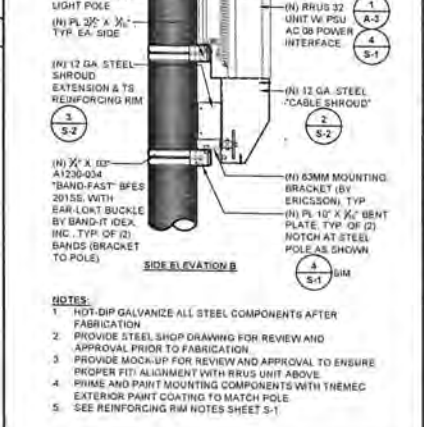
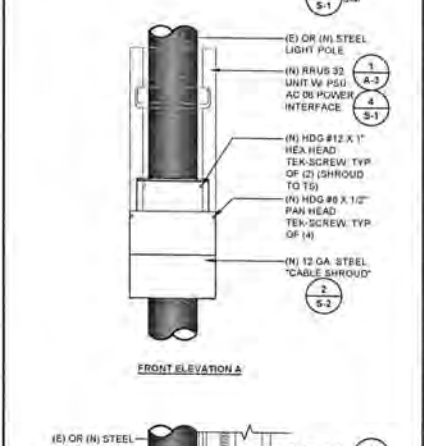
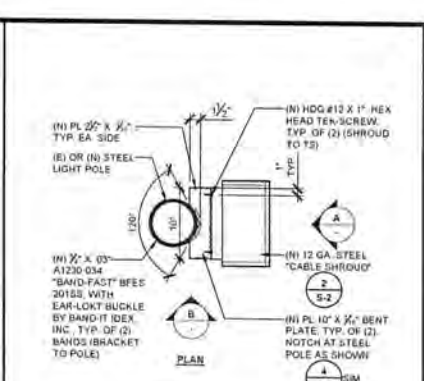
SIGNAGE MOUNT SCALE: N.T.S. 7



REINFORCING RIM SCALE: N.T.S. 3



CABLE SHROUD MOUNT SCALE: N.T.S. 1



CABLE SHROUD SCALE: N.T.S. 1

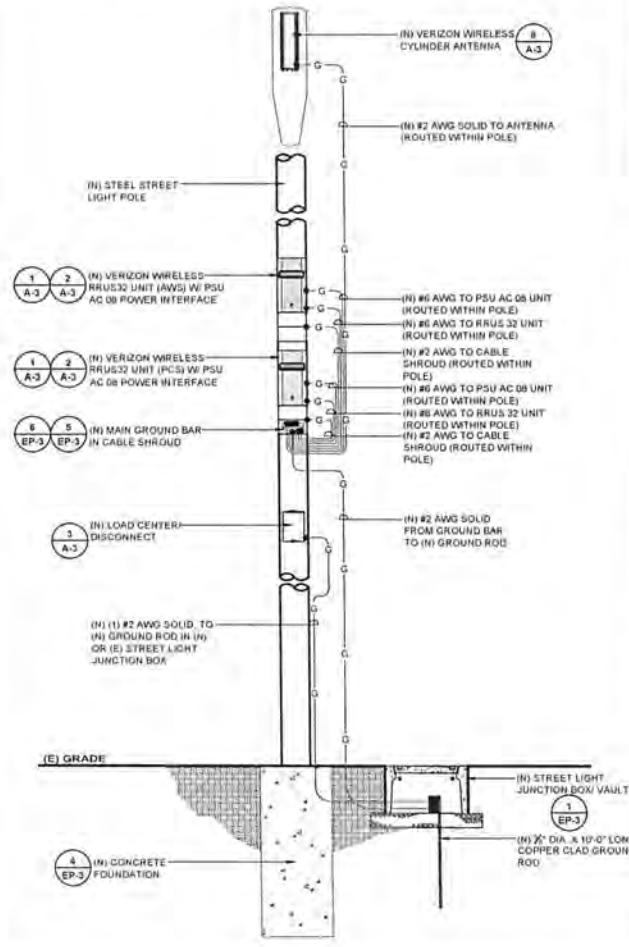
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1	10/18/2017	90% CONSTRUCTION
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3	3/30/2018	100% CONSTRUCTION REV

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DETAILS

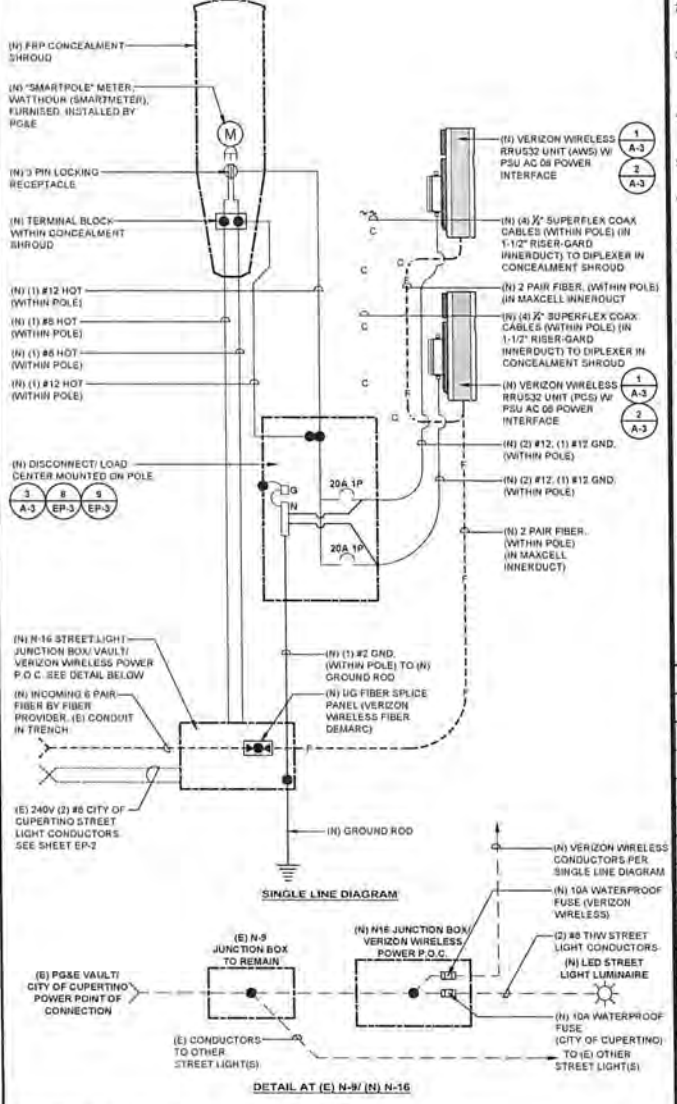
DATE: 04/2018

- NOTES:**
- ALL GROUND ELECTRODE SYSTEMS SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
 - PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1109 AND 81) FOR NEW GROUND ELECTRODE SYSTEM. PROVIDE SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
 - EACH RRU UNIT AND PSU AC UNIT SHALL BE DIRECTLY CONNECTED TO THE GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG COPPER OR LARGER.
 - EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
 - APPROVED ANTI-OXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
 - GROUND CONDUCTORS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED.



EQUIPMENT GROUNDING DIAGRAM SCALE: N.T.S. 2

- NOTES:**
- PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
 - ALL SERVICE EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE PREVAILING LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, 2017 NFPA 70, AUTHORITY HAVING JURISDICTION AND UTILITY COMPANY.
 - CONDUCTORS SHALL BE SPLICED IN ACCORDANCE WITH STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLAN EG-13, COMPRESSION CONNECTOR AND WATERPROOF.



SINGLE LINE DIAGRAM SCALE: N.T.S. 1

SHEET NOTES

- COMPLY WITH GOVERNING CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
- COORDINATE WITH UTILITY COMPANY FOR SITE SPECIFIC WORK AND MATERIAL REQUIREMENTS PRIOR TO START OF CONSTRUCTION.
- PROVIDE ALL CONDUIT, PULL ROPES, PULL BOXES, CONCRETE ENCASUREMENT (IF REQUIRED), BARRIERS, POLE RISERS, TRENCHING, BACKFILL, AS REQUIRED PER SITE SPECIFIC REQUIREMENTS.
- OBTAIN PERMITS FROM AUTHORITIES HAVING JURISDICTION REQUIRED TO PERFORM THE WORK, PRIOR TO START OF CONSTRUCTION.
- NOTIFY CONSTRUCTION MANAGER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED.
- PROVIDE SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY PROVIDER.
- REVIEW AND INSPECT EXISTING CONDITIONS, GROUNDING SYSTEM AND LIGHTING PROTECTION SYSTEM FOR COMPLIANCE WITH THE AUTHORITY HAVING JURISDICTION. REPORT ANY ADVERSE FINDINGS TO THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING.
- PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING FOR NEW GROUND ELECTRODE SYSTEMS. PROVIDE SUPPLEMENTAL GROUND ELECTRODES AS REQUIRED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- ANTI-OXIDANT COATINGS SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL WIRING METHODS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC) AND UTILITY COMPANY REQUIREMENTS AND AUTHORITIES HAVING JURISDICTION.
- ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY SECTIONS USING APPROVED COUPLERS PER CEC REQUIREMENTS.
- ALL EMPTY CONDUITS SHALL HAVE A 3\"/>

SYMBOL LEGEND

SYMBOL	NOTES
(Symbol: Fiber Optic Cable)	FIBER OPTIC CABLE
(Symbol: Copper Ground Wire)	COPPER GROUND WIRE
(Symbol: Branch Circuit Underground)	BRANCH CIRCUIT UNDERGROUND
(Symbol: Branch Circuit Above Ground)	BRANCH CIRCUIT ABOVE GROUND
(Symbol: Conduit Furred Up)	CONDUIT FURRED UP
(Symbol: Conduit Furred Down)	CONDUIT FURRED DOWN
(Symbol: Conduit Stripped Out)	CONDUIT STRIPPED OUT
(Symbol: Conduit Bumper)	CONDUIT BUMPER
(Symbol: Fuse)	FUSE
(Symbol: Spliced Wire)	SPLICED WIRE
(Symbol: Fiber Optic Splice Panel)	FIBER OPTIC SPLICE PANEL
(Symbol: Meter Rack Per Utility Provider Requirements)	METER RACK PER UTILITY PROVIDER REQUIREMENTS
(Symbol: Grounded Rod)	GROUND ROD
(Symbol: Mechanical Grounding Connection)	METALLIC GROUNDING CONNECTION
(Symbol: Exothermic Weld)	EXOTHERMIC WELD

JAMES VACCARO ARCHITECT, INC.
 411 DOWNEY WAY #100 C
 FARMERS - CA 94544
 415 488 2070 PHONE 415 413 607 FAX
 800.578.8000 WWW.JVARCHITECT.COM

MODUS, INC.
 2470 DICKENS STREET 9TH FLOOR
 SAN FRANCISCO, CA 94133

verizon
 VERIZON WIRELESS
 2015 MICHELLE DRIVE, SUITE 8
 FULWOOD CREEK, CA 94558
 CONSULTANTS

SF_CUPER001 CPSC001
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 CUPERTINO, CA 95014
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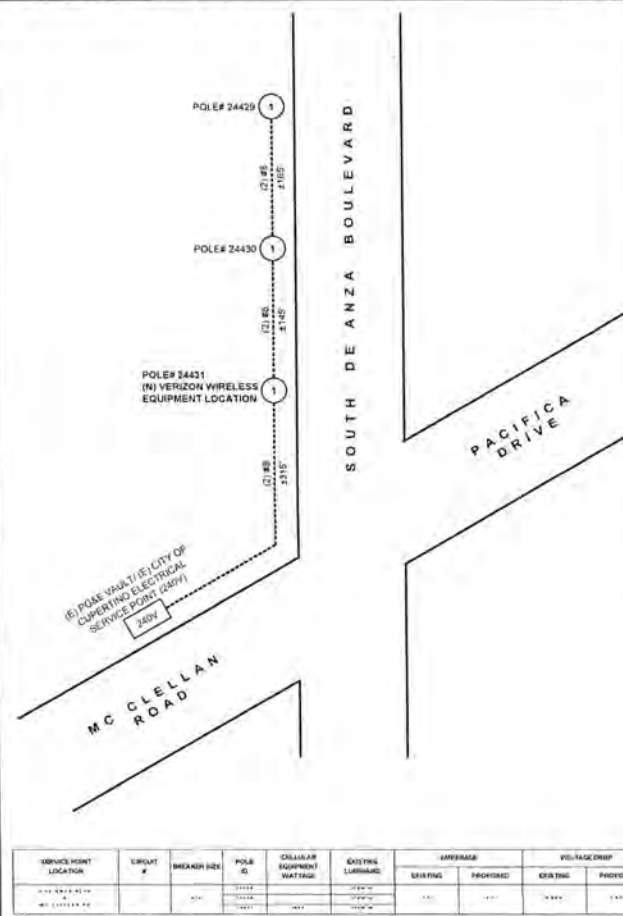
SINGLE LINE DIAGRAM, EQUIPMENT GROUNDING DIAGRAM

SHEET NUMBER

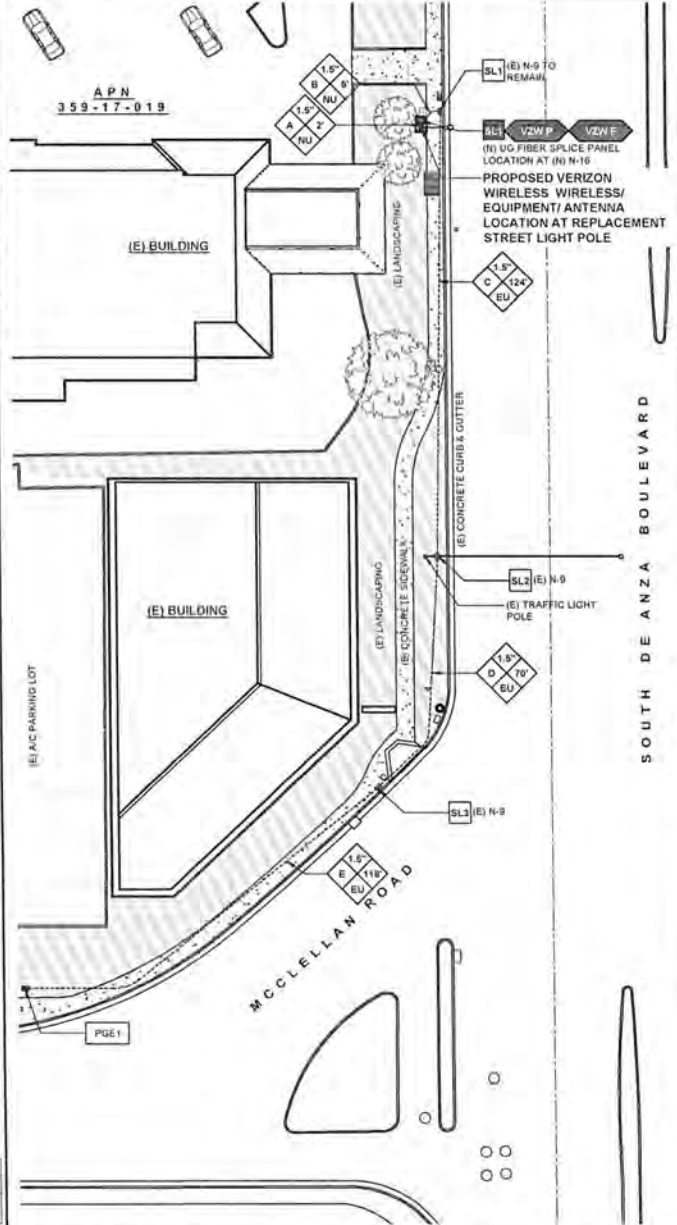
EP-1

CONDUIT SCHEDULE		
MARK	CONDUIT SIZE	WIRES
SCHEDULE A	(N) 1/2" DIA.	(E) CITY (2) #6 VERIZON (N) 2X FIBER, (2) #2 GND
SCHEDULE B	(N) 1/2" DIA.	(E) CITY (2) #6
SCHEDULE C	(E) 1/2" DIA.	(E) CITY (2) #6
SCHEDULE D	(E) 1/2" DIA.	(E) CITY (2) #6
SCHEDULE E	(E) 1/2" DIA.	(E) CITY (2) #6

CONDUIT SCHEDULE SCALE: N.T.S. 2



CIRCUIT DIAGRAM SCALE: N.T.S. 3



UTILITY PLAN SCALE: 1/16"=1'-0" 1

SHEET NOTES

- COMPLY WITH GOVERNING CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS.
- OBTAIN PERMITS FROM AUTHORITIES HAVING JURISDICTION REQUIRED TO PERFORM THE WORK, PRIOR TO START OF CONSTRUCTION.
- NOTIFY CONSTRUCTION MANAGER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED.
- PROVIDE SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY PROVIDER.
- REVIEW AND INSPECT EXISTING CONDITIONS, GROUNDING SYSTEM AND LIGHTING PROTECTION SYSTEM FOR COMPLIANCE WITH THE AUTHORITY HAVING JURISDICTION. REPORT ANY ADVERSE FINDINGS TO THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING.
- EXISTING UNDERGROUND WIRING, CONDUIT AND FUSE INFORMATION SHOWN IS BASED ON CLIENT PROVIDED INFORMATION AND BEST PRESENT KNOWLEDGE OF EXISTING CONDITIONS. WHERE CONDITIONS ARE UNCOVERED DURING CONSTRUCTION THAT DIFFER FROM WHAT IS SHOWN OR THAT REQUIRE MODIFICATION OF DETAILING SHOWN, SUCH DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- ALL WIRING METHODS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC), NFPA 70 AND APPLICABLE SECTIONS OF THE CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS STANDARDS.
- A CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT CONNECTION ORDER IS REQUIRED TO ENERGIZE ANY ELECTROLIER OR EQUIPMENT (PROVIDED BY THE CITY OF CUPERTINO AFTER COMPLETION AND INSPECTION FOR SUBMITTAL TO PACIFIC GAS AND ELECTRIC).
- CONTACT PACIFIC GAS AND ELECTRIC FOR ADDITIONAL REQUIREMENTS AND CONTACT THE CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT FOR INSPECTIONS OF FOUNDATIONS FORTY EIGHT HOURS PRIOR TO FOUNDATION POURING AND ELECTRICAL INSPECTIONS.
- THE CONTRACTOR SHALL SUPPLY TO THE CITY OF CUPERTINO FOR APPROVAL MANUFACTURER'S SUBMITTALS FOR ALL NEW LUMINAIRES.
- ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL OVERLOAD PROTECTION (FUSES) SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- WHENEVER AN INSTALLATION IS NEAR ANY OVERHEAD WIRE; CONDUCTORS, A CLEARANCE MUST BE OBTAINED FROM PACIFIC GAS AND ELECTRIC PRIOR TO INSTALLATION.

SHEET LEGEND

SYMBOL	NOTES
	CONDUIT DIAMETER CONDUIT APPROXIMATE LENGTH IN LINEAR FEET CONDUIT SCHEDULE MARK
	EXISTING, NEW, UNDERGROUND, SURFACE MOUNTED (E-EXISTING, N-NEW, U-UNDERGROUND, S-SURFACE MOUNTED)
	EXISTING N-9 BOX (STREET LIGHT VAULT) NUMBER
	NEW N-16 BOX (STREET LIGHT VAULT) NUMBER/ NEW VERIZON WIRELESS FIBER SPLICE PANEL LOCATION
	EXISTING PG&E VAULT/ EXISTING CITY OF CUPERTINO POWER POINT OF CONNECTION
	EXISTING OR NEW CONDUIT ROUTE
	VERIZON WIRELESS POWER POINT OF CONNECTION
	VERIZON WIRELESS FIBER DEMARC/ SPLICE PANEL / POINT OF CONNECTION

JAMES VACCARO ARCHITECT, INC.
411 DODDERS WAY UNIT C
PACIFICA CA 94044
415 985 5700 FAX: 415 985 5711 FAX
WWW.JVARCHITECT.COM

MODUS, INC.
280 EDUCATION STREET AND FLOOR
SAN FRANCISCO CA 94102

verizon
VERIZON WIRELESS
2180 MITCHELL DRIVE SUITE B
FOLSOM CA 95630

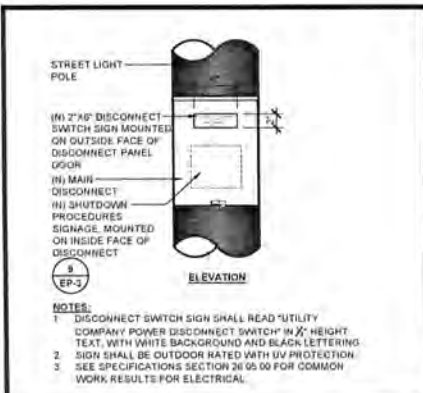
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CUPERTINO, CA 95014
PUBLIC ROW ADJACENT
TO 359-17-019

REV	DATE	ISSUE
1	10/18/2017	90% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/26/2018	100% CONSTRUCTION REV

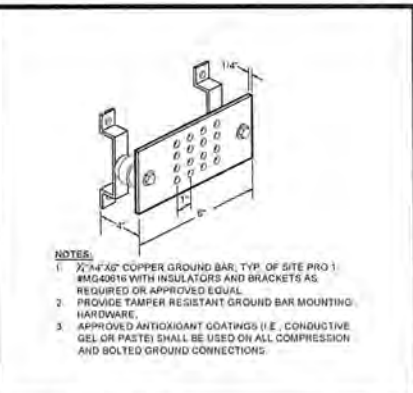
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UTILITY PLAN, CONDUIT SCHEDULE, CIRCUIT DIAGRAM

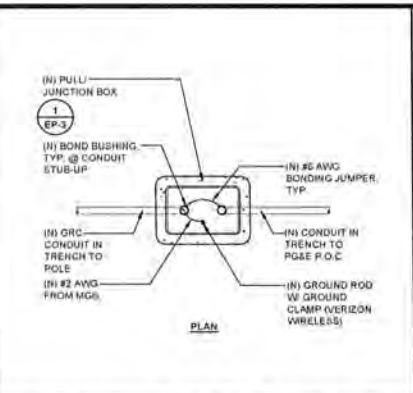
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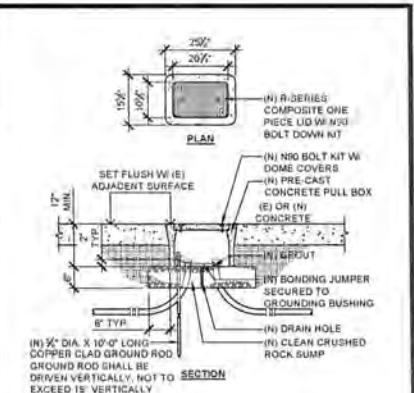
SHUT-DOWN SIGNAGE SCALE: N.T.S. 8



GROUND BAR SCALE: N.T.S. 5



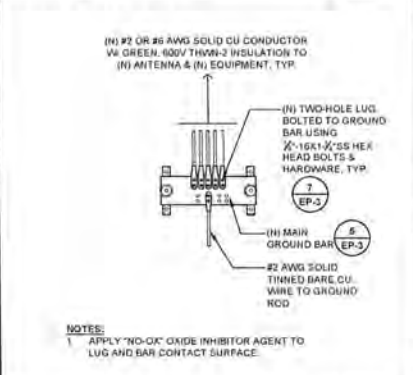
GROUNDING AT PULL BOX SCALE: N.T.S. 3



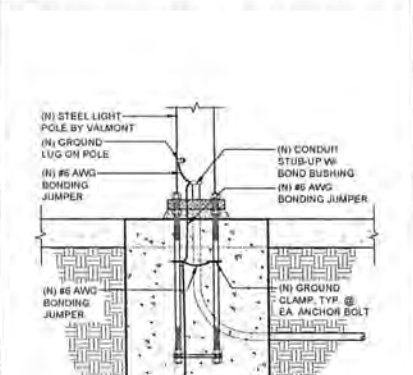
JUNCTION/ PULL BOX SCALE: N.T.S. 1



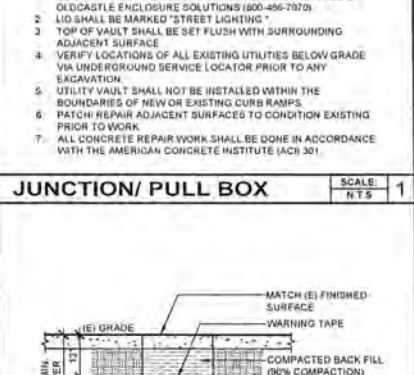
SHUT-DOWN SIGNAGE SCALE: N.T.S. 9



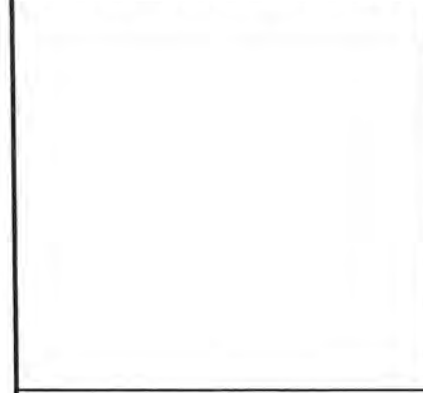
GROUND CONNECTION SCALE: N.T.S. 6



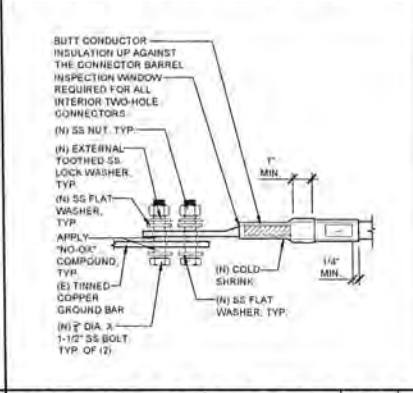
GROUNDING AT POLE SCALE: N.T.S. 4



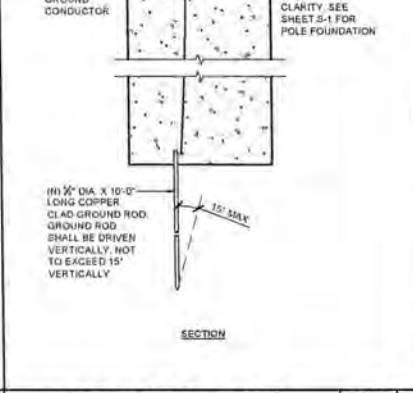
UTILITY TRENCH SCALE: N.T.S. 2



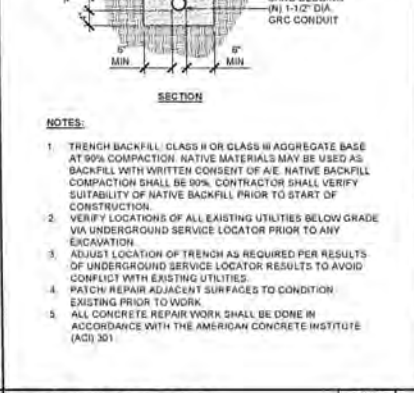
TWO-HOLE GROUND LUG SCALE: N.T.S. 7



GROUNDING AT POLE SCALE: N.T.S. 4



UTILITY TRENCH SCALE: N.T.S. 2



UTILITY TRENCH SCALE: N.T.S. 2

JAMES VACCARO ARCHITECT, INC.
 417 BUCKLEY WAY UNIT C
 PACIFICA, CA 94044
 (415) 352-0200 FAX: (415) 352-0444
 JVA@JVAARCHITECT.COM
 WWW.JVAARCHITECT.COM

MODUS, INC.
 140 BUCKLEY STREET, 2ND FLOOR
 SAN FRANCISCO, CA 94102

verizon
 VERIZON WIRELESS
 4700 BRIDGELAND DRIVE, SUITE 2
 SAN FRANCISCO, CA 94130

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 PUBLIC ROW ADJACENT TO
 10465 S. DE ANZA BOULEVARD
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DETAILS

SHEET NUMBER

EP-3

Division 1 General Requirements

SECTION 01 00 00 SUMMARY

- 1. SUMMARY
 - A. Section Includes
 - 1. General Requirements

SPECIFICATIONS

SECTION 01 30 00 ADMINISTRATIVE REQUIREMENTS

- 1. GENERAL
 - A. Section Includes
 - 1. Project Management and Coordination
 - 2. Preconstruction Meeting
 - 3. Construction Meeting
 - 4. Construction Meeting
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SECTION 01 40 00 QUALITY REQUIREMENTS

- 1. GENERAL
 - A. Section Includes
 - 1. Quality Control
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SECTION 01 50 00 PRODUCT REQUIREMENTS

- 1. GENERAL
 - A. Section Includes
 - 1. Product Requirements
 - 2. Product Requirements
 - 3. Product Requirements
 - 4. Product Requirements
 - 5. Product Requirements
 - 6. Product Requirements
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SECTION 01 60 00 PROJECT REQUIREMENTS

- 1. GENERAL
 - A. Section Includes
 - 1. Project Requirements
 - 2. Project Requirements
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REV	DATE	ISSUE
1	01/15/07	50% CONSTRUCTION
2	2/20/07	100% CONSTRUCTION
3	3/29/07	100% CONSTRUCTION REV

SP-1

VERIZON WIRELESS
2700 WILLOW DRIVE, SUITE 1
IRVINE, CA 92614

JAMES VACCARO ARCHITECT, INC.
4110 Forest Hill, Irvine, CA
92614
Tel: 949.453.1111
Fax: 949.453.1112
www.jvaccaro.com

MODUS, INC.
2800 S. AVENUE, SUITE 100
IRVINE, CA 92614

SF_CUPER001
CPSC001
PUBLIC ROW ADJACENT TO
10465 S. DE ANZA BOULEVARD
CUPERTINO, CA 95014
APN: PUBLIC ROW ADJACENT
TO 359-17-019



THESE CONDITIONS SHALL APPLY TO ALL CONTRACT DOCUMENTS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED BY A NOTE OR A SPECIFIC EXCEPTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.

9 Finishes

1.2. REFER TO PART 09 21 00 SCHEDULE LMA 010
NOTED OTHERWISE IN DRAWINGS

- A. Material: Standard Commercial
- B. Finish: Acrylic Coating 4000 9100-0100 (Finish) and 4000 9100-0100 (Finish) and 4000 9100-0100 (Finish) and 4000 9100-0100 (Finish)
- C. Installation: Apply finish to substrate in accordance with manufacturer's instructions
- D. Maintenance: Clean with mild detergent and water

10 Division 10 Specialties

SECTION 10 14 00 SIGNAGE

- 1.1. SECTION REQUIREMENTS:
 - A. Signage: Freestanding
- 1.2. SIGNAGE:
 - A. Signage: Freestanding
 - B. Signage: Freestanding
 - C. Signage: Freestanding

26 Division 26 Electrical

SECTION 26 00 COMMON WORK RESULTS FOR ELECTRICAL

- 1.1. SECTION REQUIREMENTS:
 - A. Materials: Standard Commercial
- 1.2. MATERIALS:
 - A. Materials: Standard Commercial
 - B. Materials: Standard Commercial
 - C. Materials: Standard Commercial

SPECIFICATIONS

PART 1 - EXECUTION

- 1.1. GENERAL:
 - A. Section Includes:
 - 1. Electrical equipment and materials
 - 2. Electrical equipment and materials
 - 3. Electrical equipment and materials
 - B. Related Sections:
 - 1. Electrical equipment and materials
 - 2. Electrical equipment and materials
 - 3. Electrical equipment and materials

PART 2 - EXECUTION

- 2.1. GENERAL:
 - A. Section Includes:
 - 1. Electrical equipment and materials
 - 2. Electrical equipment and materials
 - 3. Electrical equipment and materials
 - B. Related Sections:
 - 1. Electrical equipment and materials
 - 2. Electrical equipment and materials
 - 3. Electrical equipment and materials

PART 3 - EXECUTION

- 3.1. GENERAL:
 - A. Section Includes:
 - 1. Electrical equipment and materials
 - 2. Electrical equipment and materials
 - 3. Electrical equipment and materials
 - B. Related Sections:
 - 1. Electrical equipment and materials
 - 2. Electrical equipment and materials
 - 3. Electrical equipment and materials

27 Division 27 Communications

SECTION 27 00 COMMON WORK RESULTS FOR COMMUNICATIONS

- 1.1. SECTION REQUIREMENTS:
 - A. Materials: Standard Commercial
- 1.2. MATERIALS:
 - A. Materials: Standard Commercial
 - B. Materials: Standard Commercial
 - C. Materials: Standard Commercial

JAMES VACCARO ARCHITECT, INC.

11400 16th Street, Suite 100
San Francisco, CA 94133
415.774.1100
www.jvaccaro.com



MODUS, INC.
2000 16th Street, Suite 100
San Francisco, CA 94133
415.774.1100

VERIZON WIRELESS
2000 16th Street, Suite 100
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SF_CUPER001 CPSC001

PUBLIC ROW ADJACENT TO 10465 S. DE ANZA BOULEVARD CUPERTINO, CA 95014

APN: PUBLIC ROW ADJACENT TO 359-17-019



REV	DATE	ISSUE
1	10/12/2017	50% CONSTRUCTION
2	2/6/2018	100% CONSTRUCTION
3	3/23/2018	100% CONSTRUCTION REV.

SP-3 SPECIFICATIONS



City of Cupertino General Notes for Temporary Traffic Control (TTC) Plan

As of September 26, 2006, the California Manual on Uniform Traffic Control Devices (MUTCD) has been combined with the Federal Highway Administration (FHWA) MUTCD 2003 and the California Supplement (May 20, 2004). Chapter 6, of the *California MUTCD* covers TTC typical setups and the use within public right-of-way.

As a traffic control practitioners, the City expects the Contractor to design and provide a TTC plan with high-level warning devices, channeling cones, flashing arrow boards, and signing and be able to install these items as shown on the approved plan. In addition, it is acceptable to contract a responsible signing and striping company for TTC designing and all updates, which complies with the *California MUTCD*.

1. Twenty-four (24) hours prior to setting up any TTC zone, the Contractor **SHALL** call the Public Works Inspector for **proper signing and setup approval**. The set up shall match the approved TTC or a **"STOP WORK"** notice will be issued. The Inspector's number is 408.777.3104.
2. Signs used for stationary or temporary traffic control zone, may be fabricated from fiberglass reinforced plastic, metal, reflective mesh, or other reflective material as approved by the Assistant City Engineer or acting agent. Absolutely, no *paper signs* shall be allowed.
 - a. Signs shall be in good condition, no tears, not worn out, or no missing reflective properties.
 - b. Typical TTC setup and other beneficial material have been printed in the 2006 Work Area Traffic Control Handbook (WATCH). The 2006 WATCH guide is in conformance with *California MUTCD*.
3. All TTC signing shall be **STANDARD / CONVENTIONAL** in size.
4. Channeling cones shall be 28" in height and in good clean condition. Reflective sheeting is advisable and mandatory when left overnight or for night work.
5. Each high-level warning device shall have flags and at least one (1) cone on the left vehicle approach side. In some cases, barricades may be required, however when left overnight or for night work, the device shall have a flashing beacon.
6. In most cases, there may be a special need to protect bicycles and pedestrians, which are not fully covered in Part 6 of the MUTCD. Special bike and pedestrian signage shall be required by the City of Cupertino.
7. Construction signing shall **NOT** be placed in bike lane or in pedestrian walkway, unless the bike lane, sidewalk, or pedestrian path has been **APPROVED** for closure.
8. Construction signing shall **NOT** be installed on traffic signal poles. It is okay to install construction signs on City owned electroliers.

Common TTC Signing (California in parentheses): W20-1 (C23) Road Work Ahead, W9-3 (C20) XXX Lane Closed Ahead (L, R, Center, Bike), C30 (CA) Lane Closed, G20-2 (C14) End Road Work, ~~SC11 (CA) Bike Lane Closed~~, W16-1 Share the Road (black on yellow), R9-9 Sidewalk Closed (black on white), R9-11(L,R) Sidewalk Closed Ahead (black on white), C9 (CA) Flagger (w/stop paddle), W4-2 (W11) lane drop.

Table 6C-1. Recommended Advance Warning Sign ~~Minimum~~ Spacing

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed) - 25 mph or less***	100 feet	100 feet	100 feet
Urban - more than 25 mph to 40 mph***	250 feet	250 feet	250 feet
Urban (high speed) - more than 40 mph***	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

- * ~~Speed category to be determined by the highway agency.~~
- ** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)
- *** Posted speed limit, off-peak 85th-percentile speed prior to work starting, or other anticipated operating speed in mph.

**Table 6C-2. Stopping Sight Distance as a Function of Speed on Level Roads.
 (Used as suggested longitudinal buffer space length or location for flagger station)**

Speed*	Distance
20 mph	115 feet
25 mph	155 feet
30 mph	200 feet
35 mph	250 feet
40 mph	305 feet
45 mph	360 feet
50 mph	425 feet
55 mph	495 feet
60 mph	570 feet
65 mph	645 feet
70 mph	730 feet
75 mph	820 feet

* Posted speed, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.

Table 6C-3. Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length
Merging Taper	at least L
Shifting Taper	at least 0.5 L
Shoulder Taper	at least 0.33 L
One-Lane, Two-Way Traffic Taper	50 feet minimum, 100 feet maximum
Downstream Taper	50 feet minimum, 100 feet maximum

Note: Use Table 6C-4 to calculate L

**Table 6C-3(CA). Taper Length Criteria for Temporary Traffic Control Zones
 (for 12 feet Offset Width)**

Speed* S (mph)	Minimum Taper Length** for Width of Offset 12 feet (W)			
	Merging L (feet)	Shifting L/2 (feet)	Shoulder L/3 (feet)	Down Stream (feet)***
20	80	40	27	50
25	125	63	42	50
30	180	90	60	50
35	245	123	82	50
40	320	160	107	50
45	540	270	180	50
50	600	300	200	50
55	660	330	220	50
60	720	360	240	50
65	780	390	260	50
70	840	420	280	50
75	900	450	300	50

* - Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.

** - For other offsets use the following merging taper length formula for L:

For speeds of 40 mph or less, $L = WS^2/60$

For speeds of 45 mph or more, $L = WS$

Where:
 L = taper length in feet
 W = width of offset in feet
 S = posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

*** - Maximum downstream taper length is 100 feet. See Section 6C.08.

**Table 6C-4. Formulas for Determining
 Taper Length**

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
 W = width of offset in feet
 S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

**Table 6C-101(CA). Stopping Sight Distance as a Function of Speed on Downgrades.
 (Used as suggested longitudinal buffer space length or location for flagger station)**

Speed (mph)	% Downgrade (Buffer Space)		
	-3% (feet)	-6% (feet)	-9% (feet)
20	116	120	126
25	158	165	173
30	205	215	227
35	257	271	287
40	315	333	354
45	378	400	427
50	446	474	507
55	520	553	593
60	598	638	686
65	682	728	785
70	771	825	891
75	866	927	1003

* Exhibit 3-2. A Policy on Geometric Design of Highways and Streets, AASHTO, 2001, p.115.

In the Santa Clara Valley, storm drains flow directly to our local creeks, and on to San Francisco Bay, with no treatment.

Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or bayslands.

Proper management of construction sites reduces pollution significantly.

This sheet summarizes the "Best Management Practices" (BMPs) for storm water pollution prevention.

ORDINANCE OF THE CITY OF CUPERTINO FOR STORM WATER POLLUTION PREVENTION & WATERCOURSE PROTECTION: Chapter 9.18

9.18.040 Discharge into the storm drain prohibited
It is unlawful to cause, allow, or permit to be discharged, any discharge not composed entirely of stormwater to the storm drain system or to surface waters or to any location where it would contact or eventually be transported to surface waters, including flood plain areas, unless specifically called out in the Municipal Regional Permit as an exempt or conditionally exempt discharge.

9.18.070 Accidental Discharge
All persons shall notify the Director of Public Works immediately upon accidentally discharging pollutants of concern to enable countermeasures to be taken by the City to minimize damage to storm drains and the receiving waters. Initial notification shall be followed, within five (5) business days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrences. Such notification will not relieve persons of liability for violations of this chapter or for any fines imposed on the City on account thereof under Section 13350 of the California Water Code, or for violation of Section 5650 of the California Fish and Wildlife Code, or any other applicable provisions of State or Federal laws.

9.18.220 Violation*
Any person who violates any provision of this Chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punished as provided in Chapter 1.12 of the City of Cupertino Municipal Code.

Chapter 1.12: General Penalty, Section 1.12.010, paragraph D, states*:

- Unless otherwise specified by this code, an infraction is punishable by:
1. A fine not to exceed \$100 for a first violation
 2. A fine not to exceed \$200 for a second violation
 3. A fine not to exceed \$500 for a third violation of the same chapter within one year.

9.18.240 Civil penalty for illicit discharges*
Any person who discharges pollutants, in violation of this Chapter, by the use of illicit connections shall be civilly liable to the City in a sum not to exceed **twenty-five thousand dollars per day per violation** for each day in which such violation occurs.

*Excerpts – For complete CODE language refer to the City of Cupertino Municipal Code.

Cupertino
Building Dept:
408-777-3228
Public Works Dept:
408-777-3354

Santa Clara County
Recycling Hotline:
800-533-8414
www.reducewaste.org
www.recyclestuff.com
Small Business Hazardous Waste:
408-299-7300

Cupertino Sanitary Sewer Distr
408-253-7071

Santa Clara Valley Urban Runoff Pollution Prevention Prgm
800-794-2482

State Office of Emergency Services
1-800-652-7550 (24 hrs)
Report spills to 911

General Construction and Site Supervision

Storm Drain Pollution from Construction Activities
Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay. As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

- General Principles**
- Keep an orderly site and ensure good housekeeping practices are used.
 - Maintain equipment properly.
 - Cover materials when they are not in use.
 - Keep materials away from streets, storm drains and drainage channels.
 - Ensure dust control water doesn't leave site or discharge to storm drains.
- Advance Planning To Prevent Pollution**
- Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the Erosion and Sediment Control Manual, available from the Regional Water Quality Control Board, as a reference.
 - Control the amount of runoff crossing your site (especially during excavation) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
 - Train your employees and subcontractors. The city can provide training about these issues for you to distribute to workers at your construction site. Inform your subcontractors about the stormwater requirements and their own responsibilities. Use Blueprint for a Clean Bay, a construction best management practices guide available at our Building Dept. counter.

- Good Housekeeping Practices**
- Designate one area of the site for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, bermed if necessary. Make major repairs off site.
 - To prevent off-site tracking of dirt, provide entrances with stabilized aggregate surfaces. Or provide a tire wash area.
 - Keep materials out of the rain – prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
 - Contain all litter, food wrappers, bottles and cans – Place littered trash and recycling bins around the site.
 - Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
 - Cover and maintain dumpsters. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
 - Place portable toilets away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.
- Materials/Waste Handling**
- Practice Source Reduction -- minimize waste when you order materials. Estimate carefully.
 - Recycle excess materials, whenever possible, such as concrete, asphalt, scrap metal, solvents, degreasers, cleaned vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires. www.reducewaste.org for info.
 - Dispose of all wastes properly. Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.
- Permits**
- In addition to local grading and building permits, you will need to obtain coverage under the State's General Construction Activity Stormwater Permit if your construction site's disturbed area totals 5 acres or more. Information on the General Permit can be obtained from the Regional Water Quality Control Board. (This criteria will change to one acre as of Mar. 2003.)

Landscaping, Gardening, and Pool Maintenance

Landscaping/Garden Maintenance

- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Schedule grading and excavation projects during dry weather.
- Use temporary check dams or ditches to divert runoff away from storm drains.
- Protect storm drains with sandbags, gravel-filled bags, straw wattles, or other sediment controls.
- Re-vegetation is an excellent form of erosion control for any site.
- Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage cabinet.
- Use pesticides sparingly, according to instructions on the label. Rinse empty containers, and use rinsewater as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- In Cupertino, residents with curbside recycling can collect lawn, garden and tree trimmings in yardwaste totes. Yardwaste will be collected and composted by the city's contractor. Residents are encouraged to compost yardwaste on-site themselves. Or take yardwaste to a landfill where it will be composted.
- Landscape contractors should take all debris and pruning waste to a landfill that composts yard waste (BFI's Newby Island and Zanker Rd. landfill are the nearest).
- Do not blow or rake leaves into the street.

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming pool water containing chlorine and copper-based algicides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

Pool/Fountain/Spa Maintenance

- Draining pools or spas**
When it's time to drain a pool, spa, or fountain please be sure to call the Cupertino Sanitary District before you start. For further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash), Discharge flows should be kept to the low levels typically possible through a garden hose. Higher flow rates may be prohibited by local ordinance.
- Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer cleanout.
 - If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recycle/reuse water by draining it gradually onto a landscaped area.
 - Do not use copper-based algicides. Control algae with chlorine or other alternatives, such as sodium bromide.
- Filter Cleaning**
- Never clean a filter in the street or near a storm drain. Rinse cartridge and diatomaceous earth filters onto a dirt area, and spare filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
 - If there is no suitable dirt area, call Cupertino Sanitary for instructions on discharging filter backwash or rinsewater to the sanitary sewer.

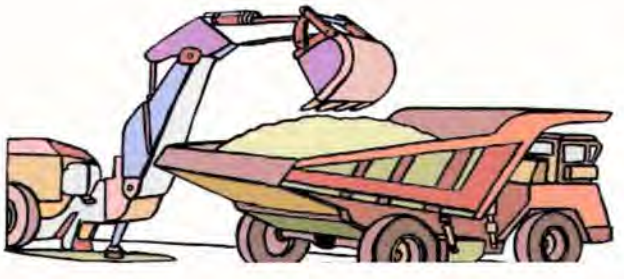
Earth-Moving Activities

Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- Protect downslope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control measures.
- Cover stockpiles and excavated soil with secured tarps or plastic sheeting.



Removal of BMP Facilities

The Project Contractor is responsible for removal of all BMP Facilities located within the Public Right of Way upon project final inspection.

Painting and Application of Solvents and Adhesives

Storm Drain Pollution from Paints, Solvents, and Adhesives

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint material and wastes, adhesives and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

Handling Paint Products

- Keep all liquid paint products and wastes away from the gutter, street, and storm drains.

Painting Cleanup

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, French drain, or creek.
- For water-based paints, paint out brushes to the extent possible, and rinse into an inside sink drain that goes to the sanitary sewer.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent. Filter and reuse thinners and solvents, where possible. Dispose of excess liquids and residue as hazardous waste.
- When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage.



Roadwork and Paving

General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments.
- Schedule excavation and grading work during dry weather.
- Check for and repair leaking equipment.
- Perform major equipment repairs at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- When refueling or when vehicle equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- Do not use diesel oil to lubricate equipment parts or clean equipment.
- Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly. (www.recyclestuff.com for list of recycling companies.)

Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt or concrete.
- After breaking up old pavement, be sure to remove all chunks and pieces. Make sure broken pavement does not come in contact with rainfall or runoff.
- When making saw cuts, use as little water as possible. Show or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.



Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street where there are numerous opportunities for an asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

During Construction

- Avoid paving and seal coating in wet weather, or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- Protect drainage ways by using earth ditches, sand bags, or other controls to divert or trap and filter runoff.
- Never wash excess material from exposed aggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- Park paving machines over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???
- Avoid over-application by water trucks for dust control.

Fresh Concrete and Mortar Application

Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

General Business Practices

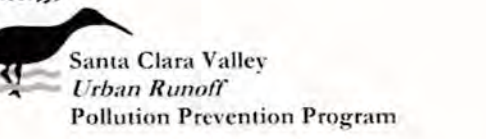
- Wash out concrete mixers only in designated washout areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- Wash out chutes onto dirt areas that do not flow to streets or drains.
- Always store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

During Construction

- Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- Set up and operate small mixers on tarps or heavy plastic drop cloths.
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm drain.
- Protect applications of fresh concrete and mortar from rainfall and runoff until the material has dried.
- Wash down exposed aggregate concrete only when the washwater can (1) flow onto a dirt area, (2) drain onto a bermed surface from which it can be pumped and disposed of properly, or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete. See www.reducewaste.org for info on recyclers.
- Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- Never dispose of washout into the street, storm drains, drainage ditches, or streams.



Small Business Hazardous Waste Disposal Prgm
Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use this program.
Call 408-299-7300 for a quote.



UPDATED SEPTEMBER 2016

APPROVED BY: DATE: 9/1/16
TIMM BORDEN, RC# 45612 DIRECTOR OF PUBLIC WORKS

CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF CUPERTINO

DEPARTMENT OF PUBLIC WORKS

SHEET: OF SHEETS
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