

CRAN_RSFR_PALO2_054

(NEAR) 1661 PAGE MILL RD PALO ALTO, CA 94305

SITE ID: CRAN_RSFR_PALO2_054

PACE CODE: MRSFR083374 FA CODE: 16140524

SITE TYPE: STEEL LIGHT POLE - MICRO CELL

POLE #: 167

COUNTY: SANTA CLARA

PROJECT TEAM

APPLICANT: AT&T MOBILITY

5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583 CONTACT: SEAN RANDALL EMAIL: SR9530@ATT.COM

AT&T MOBILITY PROJECT MANAGER: AT&T MOBILITY

5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583 CONTACT: SEAN RANDALL EMAIL: SR9530@ATT.COM

AT&T MOBILITY RF MANAGER:

5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583 CONTACT: JERIC LIZARDO EMAIL: Ij8771@att.com

PROJECT MANAGER:

MODUS, LLC 1355 WINDWARD CONCOURSE, SUITE 410 ALPHARETTA, GA 30005

PHONE: (707) 225.2865 EMAIL: JGIARRITTA@MODUSLLC.COM

A&E PROJECT MANAGER:

SPECTRUM SERVICES, LLC 4850 W. OQUENDO RD LAS VEGAS, NEVADA 89118 PHONE: (530) 305.6898

CONSTRUCTION MANAGER:

MODUS, INC.
1355 WINDWARD CONCOURSE, SUITE 410
ALPHARETTA, GA 30005
PHONE: (901) 484.4929
EMAIL: ALE@MODUSLLC.COM

EMAIL: TLAWRENCE@MODUSLLC.COM

PROJECT DESCRIPTION

AT&T PROPOSES TO MODIFY EXISTING WIRELESS COMMUNICATION SITE ON A PALO ALTO STREET LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY.

COPE:

- INSTALL (2) NEW 2' PANEL ANTENNA ON TOP OF LIGHT POLE
- INSTALL (1) NEW RADIO 4415, (1) RADIO 4435 AND (1) RADIO 4449 ON LIGHT POLE
- INSTALL (4) NEW PSU AC08 ON STEEL LIGHT POLE
 INSTALL (1) NEW COAY CONDUIT FROM FOURMENT TO
- INSTALL (1) NEW COAX CONDUIT FROM EQUIPMENT TO NEW PANEL ANTENNAS
- INSTALL (1) NEW POWER CONDUIT FROM P.O.C. TO EQUIPMENT

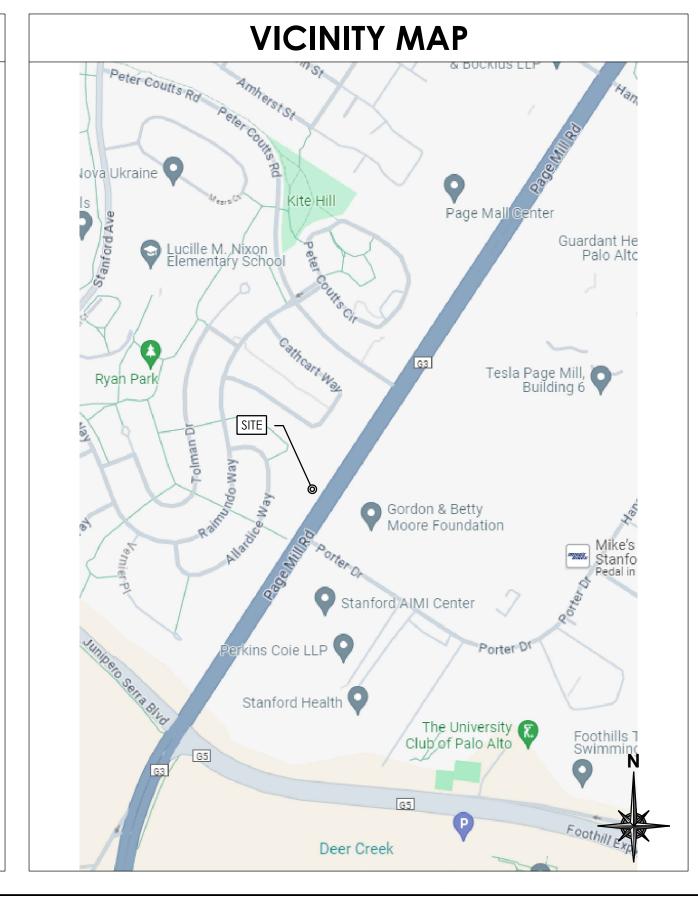
 INSTALL (1) NEW FIRED CONDUIT FROM P.O.C. TO EQUIPMENT

 OF THE PROPERTY OF THE PR
- INSTALL (1) NEW FIBER CONDUIT FROM P.O.C. TO EQUIPMENT
 REMOVE (E) FOUNDATION ADJACENT TO POLE.
- EXISTING LIGHT POLE AND FOUNDATION TO REMAIN
- CABLING TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS
- ALL AT&T ADDED APPURTENANCES SHALL BE PAINTED TO MATCH POLE COLOR (NON-GLOSSY "SABLE" BY SHERWIN WILLIAMS, OR EQUIVALENT)

APPLICANT:

COUNTY:

POLE PHOTO



SITE INFORMATION

SITE ADDRESS: (NEAR) 1661 PAGE MILL RD PALO ALTO, CA 94305

OWNER: CITY OF PALO ALTO UTILITIES

250 HAMILTON AVE PALO ALTO, CA 94301

AT&T MOBILITY

5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583

SANTA CLARA

LATITUDE: 37.410145° N

LONGITUDE: 122.152965°W

JURISDICTION: CITY OF PALO ALTO

ASSESSORS PARCEL NUMBER: PUBLIC RIGHT OF WAY

NEAR 14222002

ZONING: PUBLIC ROW

ELEVATION: 132.648' AMSL

ADJACENT ZONING: R-1

PROPOSED USE: UNMANNED TELECOM FACILITY



CALL 811 BEFORE YOU DIG IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	POLLUTION PREVENTION
T-4	PUBLIC WORKS CONDITIONS
T-5	PHOTO SIMULATIONS
C-1	SURVEY
A-1	SITE PLAN
A-2	ELEVATIONS
A-3	ELEVATIONS
D-1	DETAILS
D-2	DETAILS
E-1	ELECTRICAL GENERAL NOTES
E-2	ELECTRICAL DIAGRAMS
E-3	ELECTRICAL DETAILS
SA-1	STRUCTURAL ANALYSIS
EME-1	EME REPORT
EME-2	EME REPORT
TP-1	TREE PROTECTION PLAN
TP-2	TREE PROTECTION PLAN
TCP-1	TRAFFIC CONTROL PLAN

DRAWING INDEX

CODE COMPLIANCE

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

- 2022 CALIFORNIA BUILDING CODE (CBC), BASED ON THE 2021 IBC
 2022 CALIFORNIA ELECTRICAL CODE (CEC), BASED ON THE 2020 NEC
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), BASED ON THE 2020 NEC
 2022 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2021 UMC
- 2022 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2021 UPC
 2022 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN)
- 2022 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS, BASED ON THE 2021 IFC
 ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- NATIONAL ELECTRICAL CODE (NEC) (2023 EDITION)
 NATIONAL ELECTRICAL SAFETY CODE IEEE C2 2023 (NESC)
- CITY / COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS FOR PERSONS WITH DISABILITIES:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS
NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE
CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.

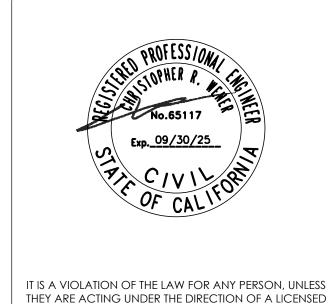


AT&T 5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

(RE\	/ DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
2	08/28/25	100% CD PLAN CHECK



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PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

1661 PAGE MILL RD PALO ALTO, CA 94305

TITLE SHEET

GENERAL NOTES

GENERAL CONSTRUCTION NOTES

- 1. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS
- INDICATED ON THE DRAWINGS. 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL CONTACT USA NORTH 811 (UNDERGROUND SERVICE ALERT) AT (800) 642-2444, FOR UTILITY LOCATIONS, 2 WORKING DAYS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- 6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT /
- 7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- 8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE AREA LINES, UNLESS OTHERWISE NOTED.
- 9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- 10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- 11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- 12. ANY EXISTING COMPONENTS DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT
- COMPLETION OF PROJECT. 13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL HAVE PROTECTIVE SYSTEMS INSTALLED IN ACCORDANCE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

GENERAL WIRELESS FACILITY NOTES

- 1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 2. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 3. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- 4. ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- 5. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

PROJECT CLOSEOUT

- 1. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO CONSTRUCTION MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM
- WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. 2. PROVIDE CONSTRUCTION MANAGER WITH ONE SET OF COMPLETE "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.

EQUIPMENT LOCATION

- 1. ALL DRAWINGS DIAGRAMMATICALLY INDICATE THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- 2. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE STRUCTURE CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- 3. COORDINATE THE WORK OF THE SECTION WITH THAT OF ALL OTHER TRADES. WHERE CONFLICTS OCCUR, CONSULT WITH THE PROSPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL THE REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

- "TYPICAL" OR "TYP" MEANS THAT THIS ITEM IS SUBSTANTIALLY THE SAME ACROSS SIMILAR CONDITIONS. "TYP." SHALL BE UNDERSTOOD TO MEAN "TYPICAL WHERE OCCURS" AND SHALL NOT BE CONSIDERED AS WITHOUT EXCEPTION OR CONSIDERATION OF SPECIFIC CONDITIONS.
- 2. "SIMILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR THE CONDITION
- NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN. 3. "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE, OR BY THE CONTRACT DOCUMENTS.
- 4. "ALIGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME
- 5. THE TERM "VERIFY" OR "V.I.F." SHALL BE UNDERSTOOD TO MEAN "VERIFY IN FIELD WITH ENGINEER" AND REQUIRES THAT THE CONTRACTOR CONFIRM INTENTION REGARDING NOTED CONDITION AND PROCEED ONLY AFTER RECEIVING
- 6. Where the words "or equal" or words of similar intent follow a MATERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SIGNED APPROVAL OF ANY DEVIATION TO SAID SPECIFICATION PRIOR TO CONTRACTORS ORDERING OR INSTALLATION OF SUCH PROPOSED EQUAL
- 7. FURNISH: SUPPLY ONLY, OTHERS TO INSTALL. INSTALL: INSTALL ITEMS FURNISHED BY OTHERS. PROVIDE: FURNISH AND INSTALL.

APPLICABLE CODES, REGULATIONS AND STANDARDS:

- 1. CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- 2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT AT THE TIME OF PERMITTING SHALL GOVERN THE DESIGN.
- 3. CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- 3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL
- CONSTRUCTION, ASD, NINTH EDITION - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA
- SUPPORTING STRUCTURES 3.4. - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF
- ELECTRICAL EQUIPMENT. 3.5. -IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND
- "HIGH SYSTEM EXPOSURE") 4. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- 4.1. TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
- TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING 4.3. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- 4.4. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
- 5. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS 6. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS

CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT,

GENERAL TRENCHING NOTES

- MAINTAIN 24" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS, U.O.N. MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS. MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF
- CONDUITS REQUIRED. 4. REFER TO SHEET E-1 FOR ADDITIONAL REQUIREMENTS

THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL GROUNDING NOTES

1. GROUNDING SHALL BE TESTED AT 5 OHMS OR LESS. 2. WOOD MOLDING, STAPLED EVERY 3'-0" AND AT EACH END.

GENERAL CONDUIT NOTES

- 1. ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE. 2. SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE AND ELSEWHERE AS NOTES. TRANSITION FROM SCHEDULE 40 PVC OR RIGID STEEL CONDUIT TO SCHEDULE 80 USING APPROVED FITTINGS DESIGNED TO PROVIDE A SMOOTH INTERIOR WALL TRANSITION TO THE REDUCED INTERIOR DIAMETER OF SCHEDULE 80. ADJUST CONDUIT SIZE IF NECESSARY TO MAINTAIN THE INTERIOR AREA REQUIRED FOR THE WIRING SPECIFIED.
- 4. GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- 5. CONTRACTOR TO STUB UP POLE 10" w/ POWER CONDUIT.
- 6. ZRC COLD GALVANIZING COMPOUND OR EQUIVALENT IS REQUIRED ON EXPOSED THREADS IN RIGID STEEL CONDUIT AND THE CUT ENDS OF SUPPORT STRUTS, ETC. TO PREVENT RUSTING.

CONTRACTOR REQUIREMENTS

DO NOT SCALE OFF DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

ABBREVIATIONS

LEGEND

STEEL

GROUT

4

SPOT ELEVATION

REVISION

DETAIL

REFERENCE

SECTION

REFERENCE

ELEVATION REFERENCE

CONCRETE

EARTH

GRAVEL

— - — - — CENTERLINE

--- G --- GROUND

— E — ELECTRICAL

----- E/T ----- ELECTRICAL/TELCO

POWER/TELCO

— FO — FIBER

——— OH P/T ———

----- O/H ----- OVERHEAD

— OHT — OVERHEAD TELCO

— OHP — OVERHEAD POWER

——————— FENCING

—— - - — RIGHT-OF-WAY

ABB	REVIATIONS		
A.B.	ANCHOR BOLT	GLB.	GLUE LAMINATED BEAM
ABV.	ABOVE	(GLU-LAM)	
ACCA	ANTENNA CABLE COVER ASSEMBLY	GPS	GLOBAL POSITIONING SYSTEM
ADD'L	ADDITIONAL	GRND.	GROUND
A.F.F.	ABOVE FINISHED FLOOR	HDR.	HEADER
A.F.G.	ABOVE FINISHED GRADE	HGR.	HANGER
AGL	ABOVE GROUND LEVEL	HT.	HEIGHT
AHJ	AUTHORITY HAVING JURISDICTION	ICGB.	ISOLATED COPPER GROUND BUS
ALUM	ALUMINUM	IN.(")	INCH(ES)
ALT.	ALTERNATE	INT.	INTERIOR
AMSL	ABOVE SEA LEVEL	LB.(#)	POUND(s)
ANT.	ANTENNA	L.B.	LAG BOLTS
APPRX.	APPROXIMATE(LY)	L.F.	LINEAR FEET(FOOT)
ARCH. AWG.	ARCHITECT(URAL) AMERICAN WIRE GAUGE	L. MAS.	LONGITUDINAL MASONRY
BLDG.	BUILDING	MAX.	MAXIMUM
BLK.	BLOCK	M.B.	MACHINE BOLT
BLKG	BLOCKING	MECH.	MECHANICAL
BM.	BEAM	MFR.	MANUFACTURER
B.N.	BOUNDARY NAILING	MIN.	MINIMUM
BN BTCW.	BACK-UP CABINET BARE TINNED COPPER WIRE	MISC. MTL.	MISCELLANEOUS
B.O.	BOTTOM	NO.(#)	METAL NUMBER
B.O.F.	BOTTOM OF FOOTING	N.T.S.	NOT TO SCALE
CAB.	CABINET	(N)	NEW
CANT.	CANTILEVER (ED)	O.C.	ON CENTER
C.I.P.	CAST IN PLACE	OPNG.	OPENING
CLG. ©	CEILING CENTERLINE	P/C P	PRE CAST CONCRETE PLATE
CLR.	CLEAR	PLY.	PLYWOOD
COL.	COLUMN	P.S.F.	POUNDS PER SQUARE FOOT
CONC.	CONCRETE	P.S.I.	POUNDS PER SQUARE INCH
CONN.	CONNECTION(OR)	P.T.	PRESSURE TREATED
CONST. CONT.	CONSTRUCTION CONTINUOUS	PWR. QTY.	POWER (CABINET) QUANTITY
d	PENNY (NAILS)	RAD.(R)	RADIUS
DBL.	DOUBLE	REF.	REFERENCE
DEPT.	DEPARTMENT	REINF.	REINFORCING
D.F.	DOUGLAS FIR	REQ'D.	REQUIRED
DIA. DIAG.	DIAMETER DIAGONAL	RGS. R.O.W.	RIGID GALVANIZED STEEL RIGHT OF WAY
DIM.	DIMENSION	SCH.	SCHEDULE
DWG.	DRAWING(S)	SHT.	SHEET
DWL.	DOWEL(S)	SIM.	SIMILAR
EA.	EACH	SPEC.	SPECIFICATION(S)
EL. ELEC.	ELEVATION ELECTRICAL	SQ. S.S.	SQUARE STAINLESS STEEL
ELEV.	ELEVATOR	STD.	STANDARD
EMT.	ELECTRICAL METALLIC	STL.	STEEL
	TUBING	STRUC.	STRUCTURAL
E.N. ENG.	EDGE NAIL	TEMP. THK.	TEMPORARY THICKNESS
EQ.	ENGINEER EQUAL	T.N.	TOE NAIL
EXP.	EXPANSION	T.O.A.	TOP OF ANTENNA
EXST.(E)	EXISTING	T.O.C.	TOP OF CURB
EXT.	EXTERIOR	T.O.F.	TOP OF FOUNDATION
FAB. F.F.	FABRICATION(OR) FINISH FLOOR	T.O.P. T.O.S.	TOP OF PLATE(PARAPET) TOP OF STEEL
F.G.	FINISH GRADE	T.O.S. T.O.W.	TOP OF WALL
FIN.	FINISH(ED)	TYP.	TYPICAL
FLR.	FLOOR	U.G.	UNDER GROUND
FDN.	FOUNDATION	U.L.	UNDERWRITES LABORATORY
F.O.C. F.O.M.	FACE OF CONCRETE FACE OF MASONRY	U.N.O. V.I.F.	UNLESS NOTED OTHERWISE VERIFY IN FIELD
F.O.S.	FACE OF STUD	W	WIDE(WIDTH)
F.O.W.	FACE OF WALL	W/	WITH
F.S.	FINISH SURFACE	WD.	WOOD
FT.(') FTG.	FOOT(FEET) FOOTING	W.P. WT.	WEATHERPROOF WEIGHT
G.	GROWTH(CABINET)	Y Y 1.	MILIGIII
GA.	GAUGE		
GI.	GALVANIZE(D)		
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER		
	THE TENTO TEN		



5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

REV	DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
2	08/28/25	100% CD PLAN CHECK



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

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1661 PAGE MILL RD PALO ALTO, CA 94305

GENERAL NOTES

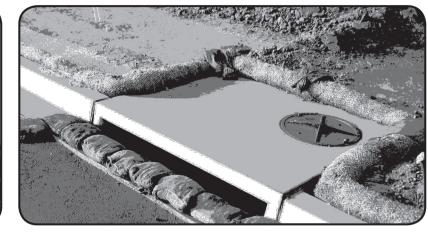
POLLUTION PREVENTION—IT'S PART OF THE PLAN

Construction projects are required to implement year-round stormwater BMPs, as they apply to your project.

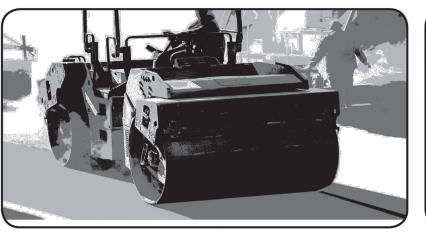
Runoff from streets and other paved areas is a major source of pollution to San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep construction dirt, debris, and other pollutants out of storm drains and local creeks. Following these guidelines will ensure your compliance with City of Palo Alto Ordinance requirements.

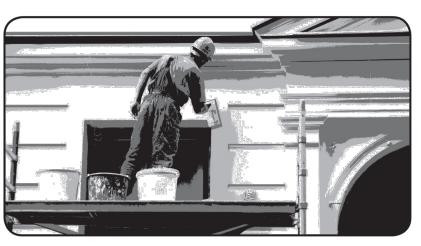














Non-Hazardous Materials

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or when they are not in use.
- ☐ Use (but don't overuse) reclaimed water for dust control. ☐ Ensure dust control water doesn't leave site or discharge to storm drains.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and do not use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ☐ Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. A plastic liner is recommended to prevent leaks. Never clean out a dumpster by hosing it down on the construction site.
- ☐ Place portable toilets away from storm drains. Make sure they are in good working order. Check frequently for leaks.
- ☐ Dispose of all wastes and demolition debris properly. Recycle materials and wastes that can be recycled, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation.
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.
- ☐ Keep site clear of litter (e.g. lunch items, cigarette butts). ☐ Prevent litter from uncovered loads by covering loads that are being transported to and from site.

Construction Entrances and Perimeter

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site. ☐ Sweep or vacuum any street tracking immediately and
- secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

EQUIPMENT MANAGEMENT EARTHMOVING & SPILL CONTROL

Maintenance and Parking

- ☐ Designate an area of the construction site, well away from streams or storm drain inlets and fitted with appropriate BMPs, for auto and equipment parking, and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, rinse water to run into gutters, streets, storm drains, or
- ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment, and do not use diesel oil to lubricate equipment or parts onsite.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks. Use drip pans to catch leaks
- ☐ Clean up leaks, drips and other spills immediately and dispose of cleanup materials properly.
- ☐ Use dry cleanup methods whenever possible (absorbent materials, cat litter and/or rags).
- ☐ Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report any hazardous materials spills immediately! Call City of Palo Alto Communications, (650) 329-2413. If the spill poses a significant hazard to human health and safety, property or the environment, you must report it to the State Office of Emergency Services. (800) 852-7550 (24 hours).

Grading and Earthwork

- ☐ Schedule grading and excavation work during dry weather. ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- □ Prevent sediment from migrating offsite and protect storm drain inlets, drainage courses and streams by installing and maintaining appropriate BMPs (e.g., silt fences, gravel bags, fiber rolls, temporary swales, etc.).
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality
- Unusual soil conditions, discoloration, or odor.
- Abandoned underground tanks.
- Abandoned wells. Buried barrels, debris, or trash.
- ☐ If the above conditions are observed, document any signs of potential contamination and clearly mark them so they are

Landscaping

- ☐ Protect stockpiled landscaping materials from wind and
- rain by storing them under tarps all year-round. ☐ Stack bagged material on pallets and under cover.

not distrurbed by construction activities.

☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet

CONCRETE MANAGEMENT & DEWATERING

Concrete Management

- ☐ Store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Store materials off the ground, on pallets. Protect dry materials from wind.
- ☐ Wash down exposed aggregate concrete only when the wash water 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) block any storm drain inlets and vacuum washwater from the gutter. If possible, sweep first.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and make sure wash water does not leach into the underlying soil. (See CASQA Construction BMP Handbook for properly designed concrete washouts.)

Dewatering

- ☐ Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible.
- ☐ Be sure to obtain a Permit for Construction in the Public Street from Public Works Engineering before discharging water to a street, gutter, or storm drain. Call the Regional Water Quality Control Plant (RWQCP) at (650) 329-2598 for an inspection prior to commencing discharge. Use filtration or diversion through a basin, tank, or sediment trap as required by the approved dewatering plan. Dewatering is not permitted from October to April.
- ☐ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the City inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

PAVING/ASPHALT WORK

Paving

- ☐ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into

Sawcutting & Asphalt/Concrete

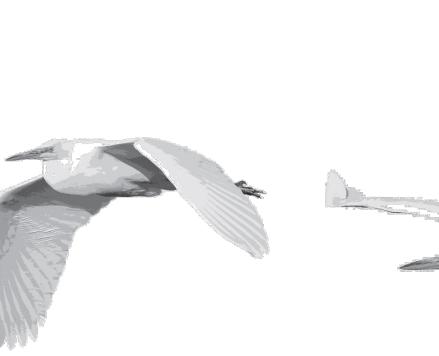
- ☐ Protect storm drain inlets during saw cutting.
- ☐ If saw cut slurry enters a catch basin, clean it up
- ☐ Shovel or vacuum saw cut slurry deposits and remove from the site. When making saw cuts, use as little water as possible. Sweep up, and properly dispose of all residues.

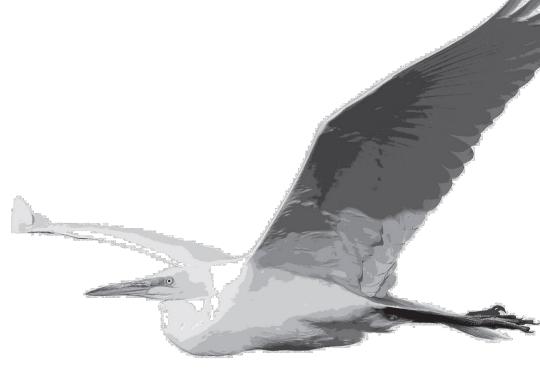
PAINTING & PAINT REMOVAL

Painting Cleanup and Removal

- □ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain. ☐ For oil-based paints, paint out brushes to the extent
- possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Sweep up or collect paint chips and dust from nonhazardous dry stripping and sand blasting into plastic drop cloths and dispose of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state certified contractor.







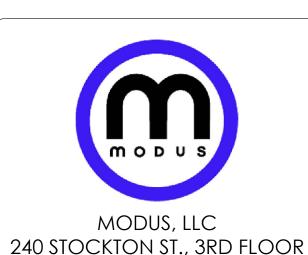
STORM DRAIN POLLUTERS MAY BE LIABLE FOR FINES OF UP TO \$10,000 PER DAY!

250 Hamilton Avenue Palo Alto, CA 94301 650.329.2211 cityofpaloalto.org





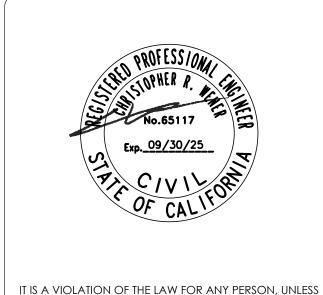
AT&T 5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



DRAWN BY: JLV CHECKED BY: TDL APPROVED BY: CW

SAN FRANCISCO, CA 94108

REV	DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
2	08/28/25	100% CD PLAN CHECK



CRAN RSFR PALO2 054

THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED

PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

1661 PAGE MILL RD PALO ALTO, CA 94305

> POLLUTION PREVENTION

PUBLIC WORKS ENGINEERING SERVICES STANDARD CONDITIONS

Construction projects are required to adhere to the following conditions as part of Building Permit approval and issuance. Following these guidelines will ensure your compliance with Public Works requirements.













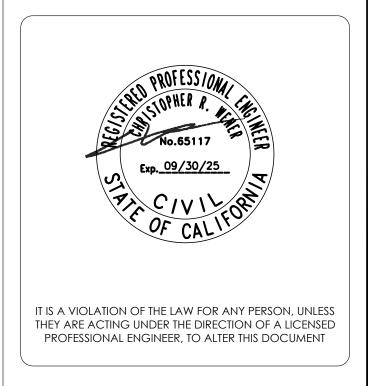
MODUS, LLC 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108 Excavation activities associated DRAWN BY:

JLV CHECKED BY: APPROVED BY: DESCRIPTION 08/16/24 90% CD

AT&T 5005 EXECUTIVE PARKWAY

> SAN RAMON, CA 94583

100% CD PLAN CHECK 100% CD PLAN CHECK 2 08/28/25



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1661 PAGE MILL RD PALO ALTO, CA 94305

> PUBLIC WORKS CONDITIONS

> > T-4

The contractor may be required to

submit a logistics plan to the Public Works Department prior to commencing work that addresses all impacts to the City's right-of-way, including, but not limited to: pedestrian control, traffic control, truck routes, material deliveries, contractor's parking, concrete pours, crane lifts, work hours, noise control, dust control, storm water pollution prevention, contractor's contact, noticing of affected surrounding properties, and schedule of work. The requirement to submit a logistics plan will be dependent on the number of applications Public Works Engineering receives within close proximity to help mitigate and control the impact to the publicright-of-way. If necessary, Public Works may require a Logistics Plan during construction.

Work in the right-of-way: Any work that is proposed in the public rightof-way, such as sidewalk replacement, driveway approach, or utility laterals must be done per City standards and the contractor performing this work must first obtain a Street Work Permit from Public Works at the Development Center. If a new driveway is in a different location than the existing driveway, then the sidewalk associated with the new driveway must be replaced with a thickened (6" thick instead of the standard 4" thick) section.



Sidewalk, curb & gutter: The applicant shall replace portions of the existing sidewalks, curbs, gutters or driveway approaches in the public right-of-way along the frontage(s) of the property as required. Contact Public Works' Inspector at (650) 496-6929 to arrange a site visit so that the inspector can discuss the extent of replacement work along the public road. Include a scan copy of the Site Inspection Directive obtained from the Public Works Inspector in the plan set.

Any construction within the city's public road right-of-way shall have an approved Permit for Construction in the Public Street prior to commencement of this work. The performance of this work is not authorized by the building permit issuance but shown on the building permit for information only

Site Inspection Directive Sheet

	SITE INSPECTION DIRECTIVE PUBLIC WORKS Engineering Services Division pwecips@cityofpaloalto.org
	dress: Date:
Type A cur	b (standard) and gutter replacement:
Type B cur	b (rolled) and gutter replacement:
6 inch side	walk replacement:
4 inch side	walk replacement:
Driveway	approach:
Other:	
-	All work to be performed per most current City of Palo Alto standards. A street-work permit or encroachment permit from Public Works Department is required prior to starting any work in the public right-of-way. Site to be reevaluated by Public Works Inspector prior to final inspection.

Contractor shall not stage, store, or stockpile any material or equipment within the public road rightof-way. This includes job site trailers, dumpsters, storage containers and portable restrooms

Construction phasing shall be coordinated to keep materials and equipment onsite.

Works Engineering Inspectors to inspect and approve the storm drain system (pipes, area drains, inlets, bubblers, dry wells, etc.) associated with the project prior to backfill.

Contractor shall schedule an inspection, at a minimum 48-hours in advance by calling (650)496-

with the proposed scope of work shall occur no closer than 10-feet from the existing street tree, or as approved by the Urban Forestry Division contact 650-496-5953. Any changes shall be approved by

the same.

Contractor shall contact Public

6929.

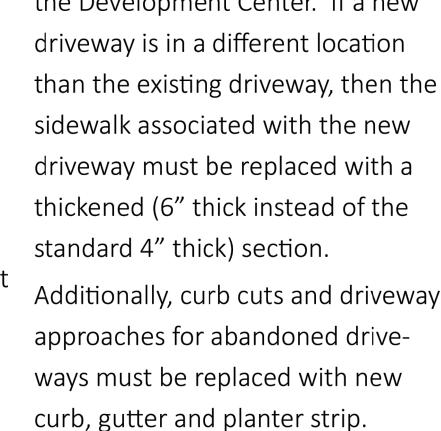


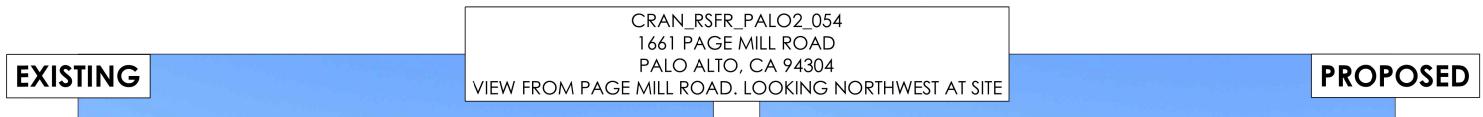
QUESTIONS?

650.329.2496, Option 8 pwecips@cityofpaloalto.org

Public Works—Engineering Services 285 Hamilton Avenue, 1st Floor Palo Alto, CA 94301











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1661 PAGE MILL ROAD
PALO ALTO, CA 94304
VIEW FROM PAGE MILL ROAD. LOOKING NORTHEAST AT SITE

PROPOSED







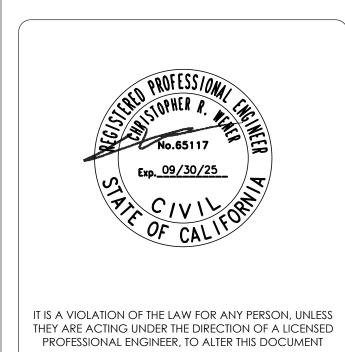
AT&T 5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

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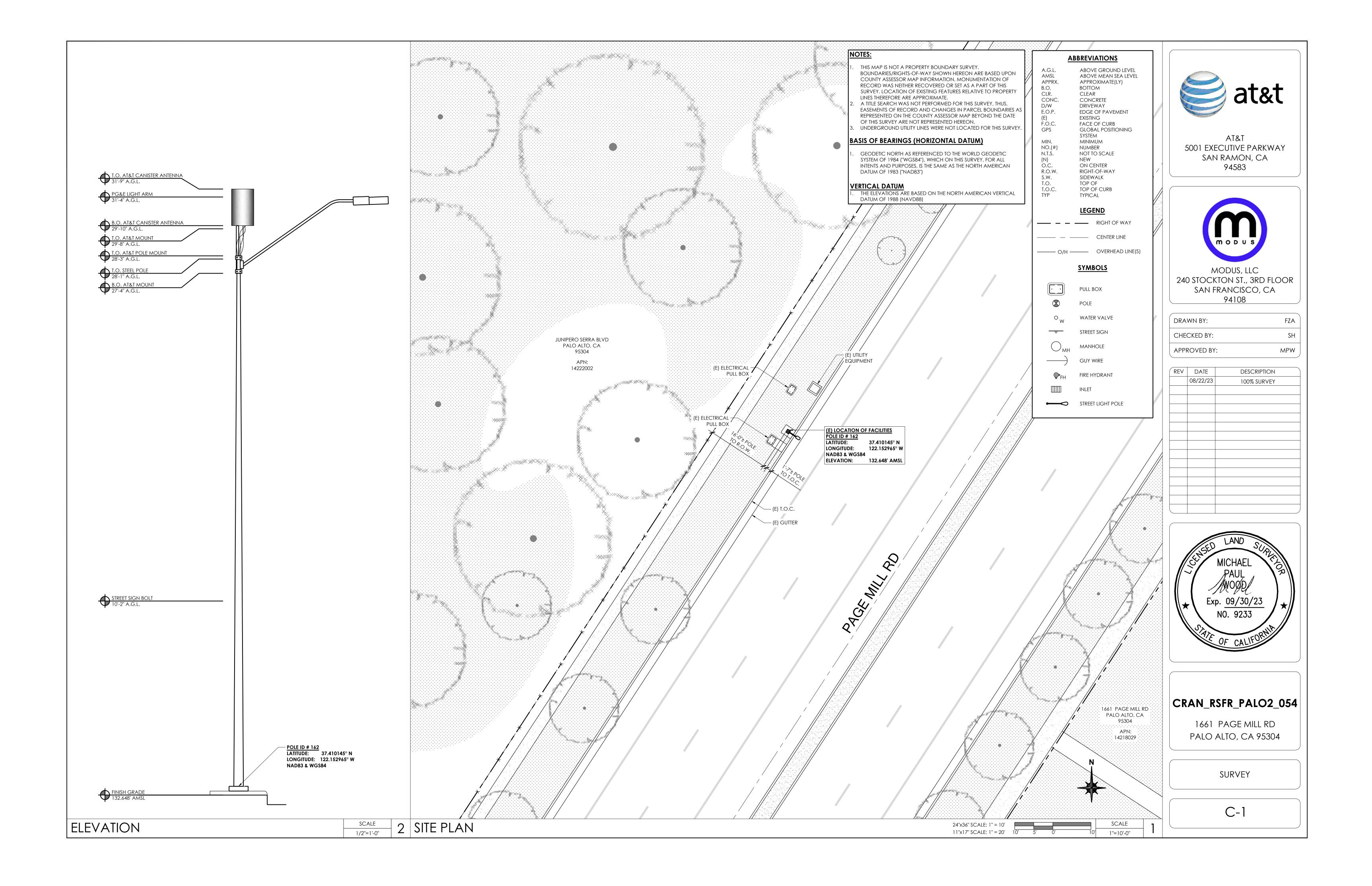
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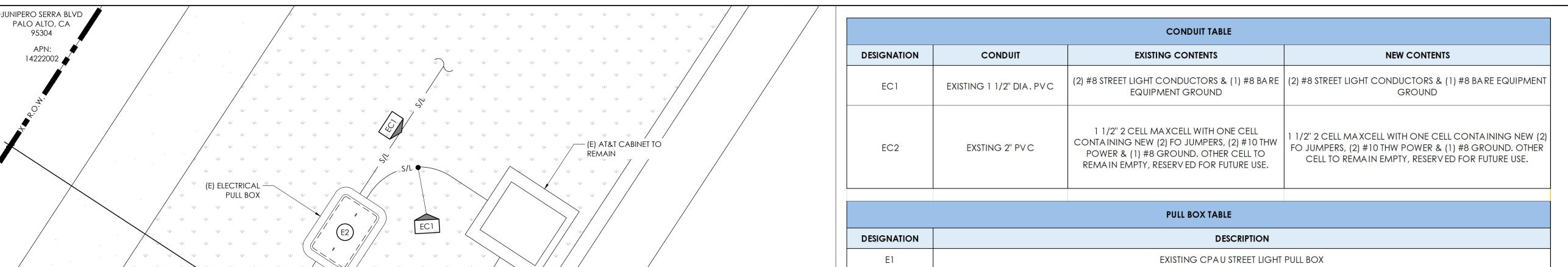


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PHOTO SIMULATIONS

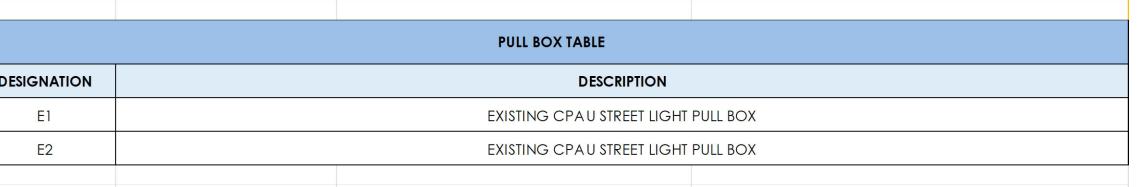




PALO ALTO, CA

95304 APN:

14222002





5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



LEGEND

- S/L ----- STREET LIGHT

1661 PAGE MILL RD PALO ALTO, CA 95304

APN: 14218029

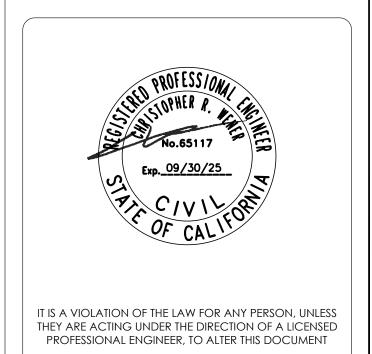
SCALE

1/16"=1'-0"

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

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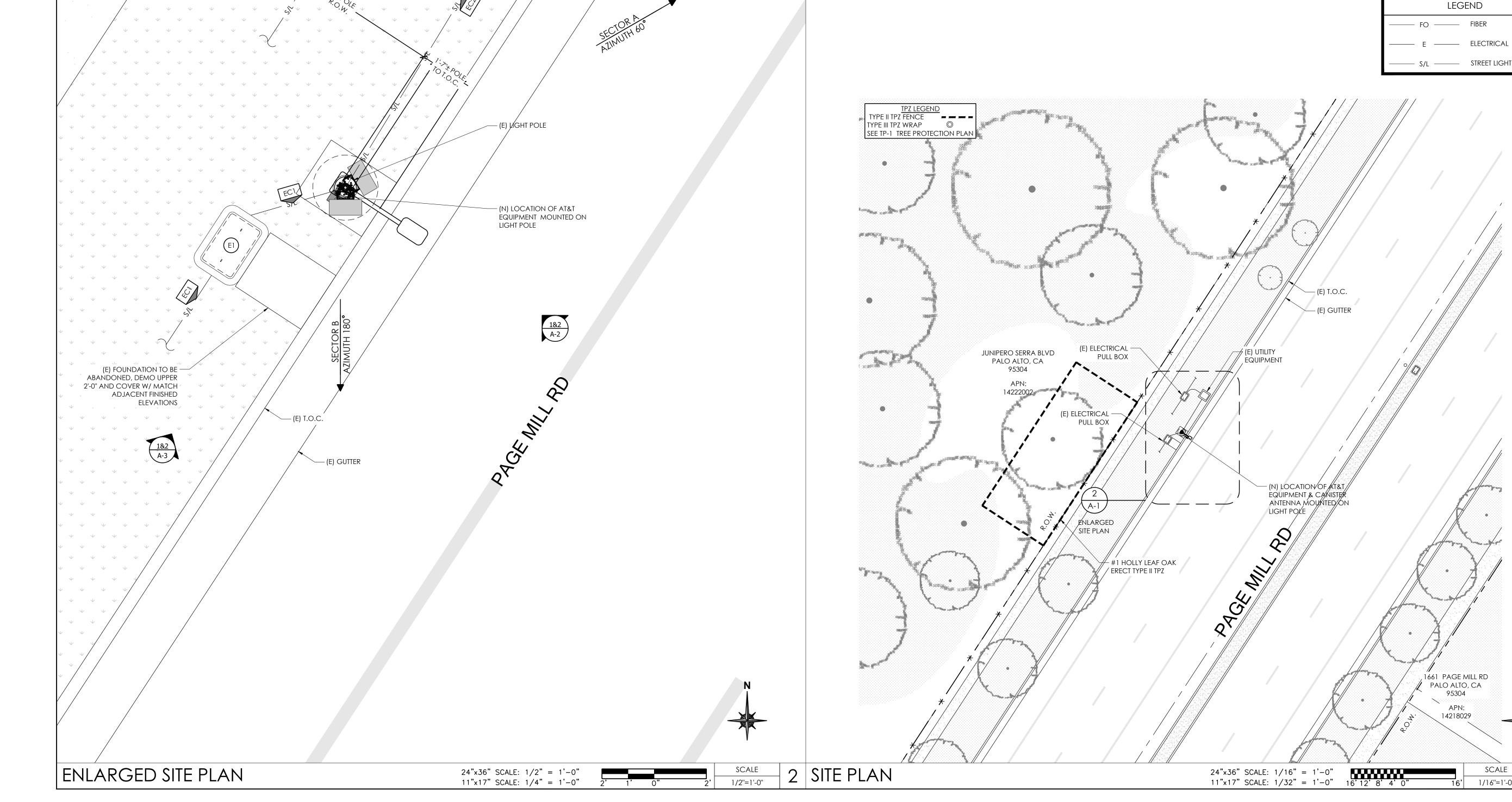


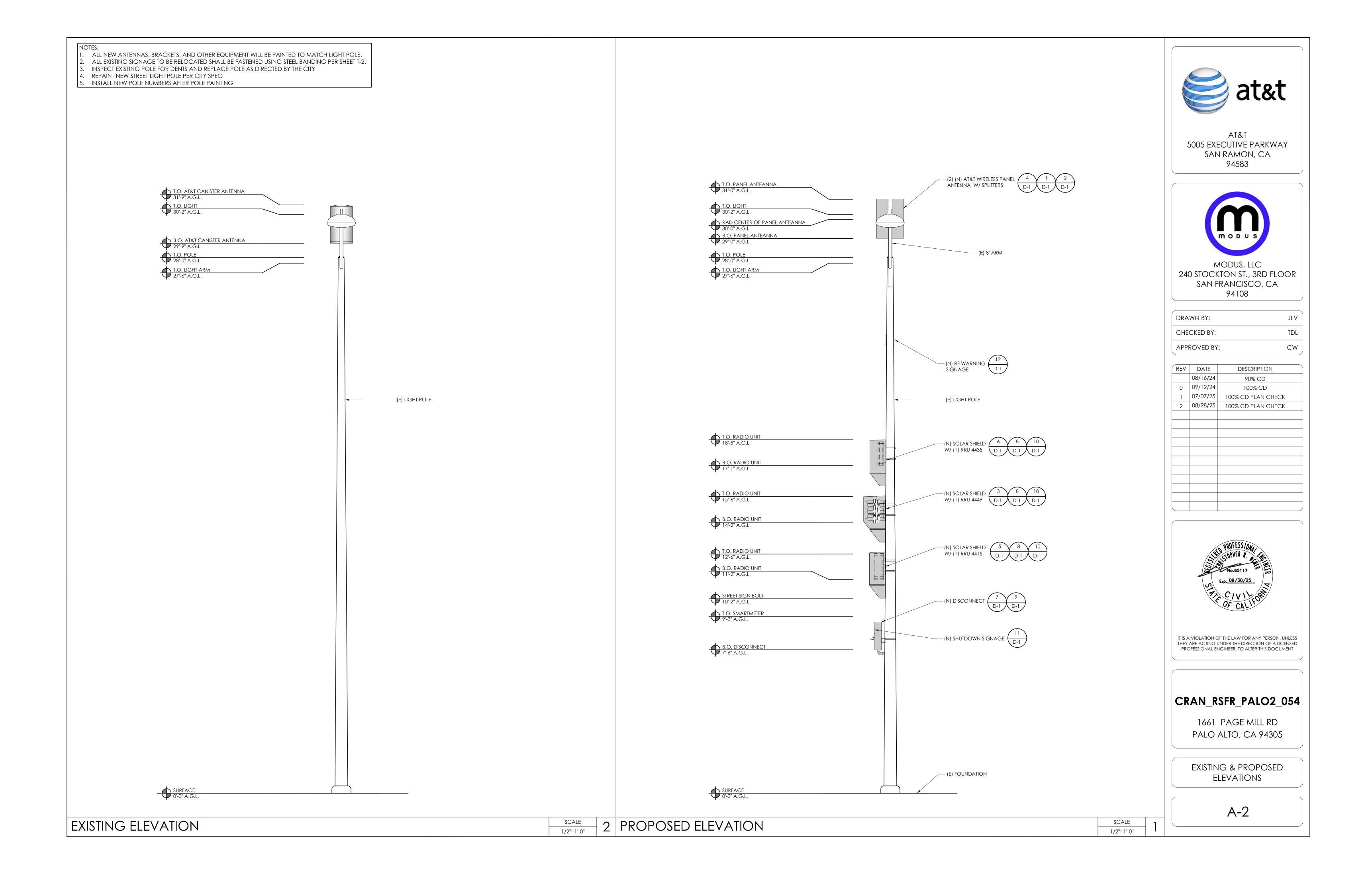
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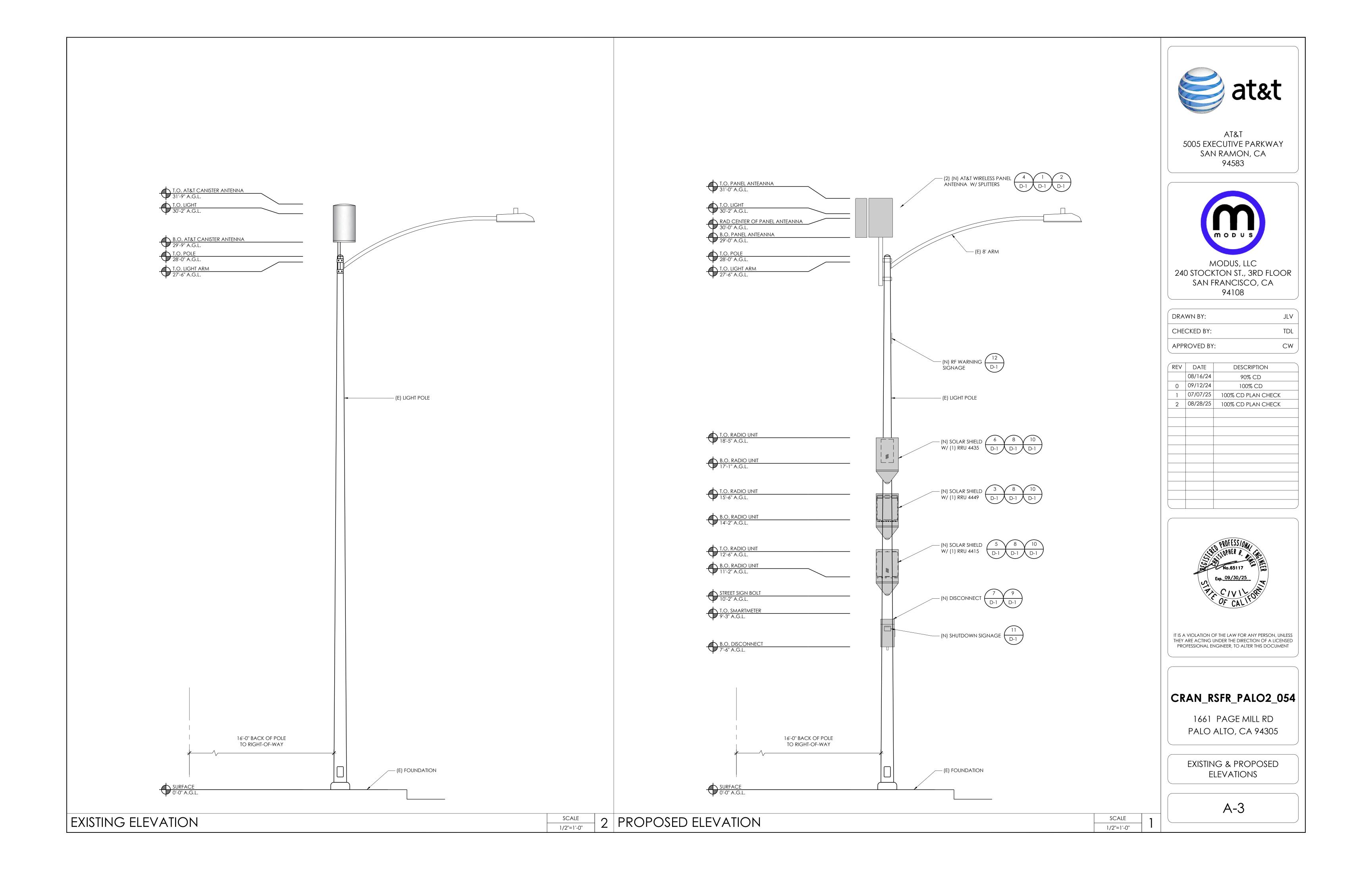
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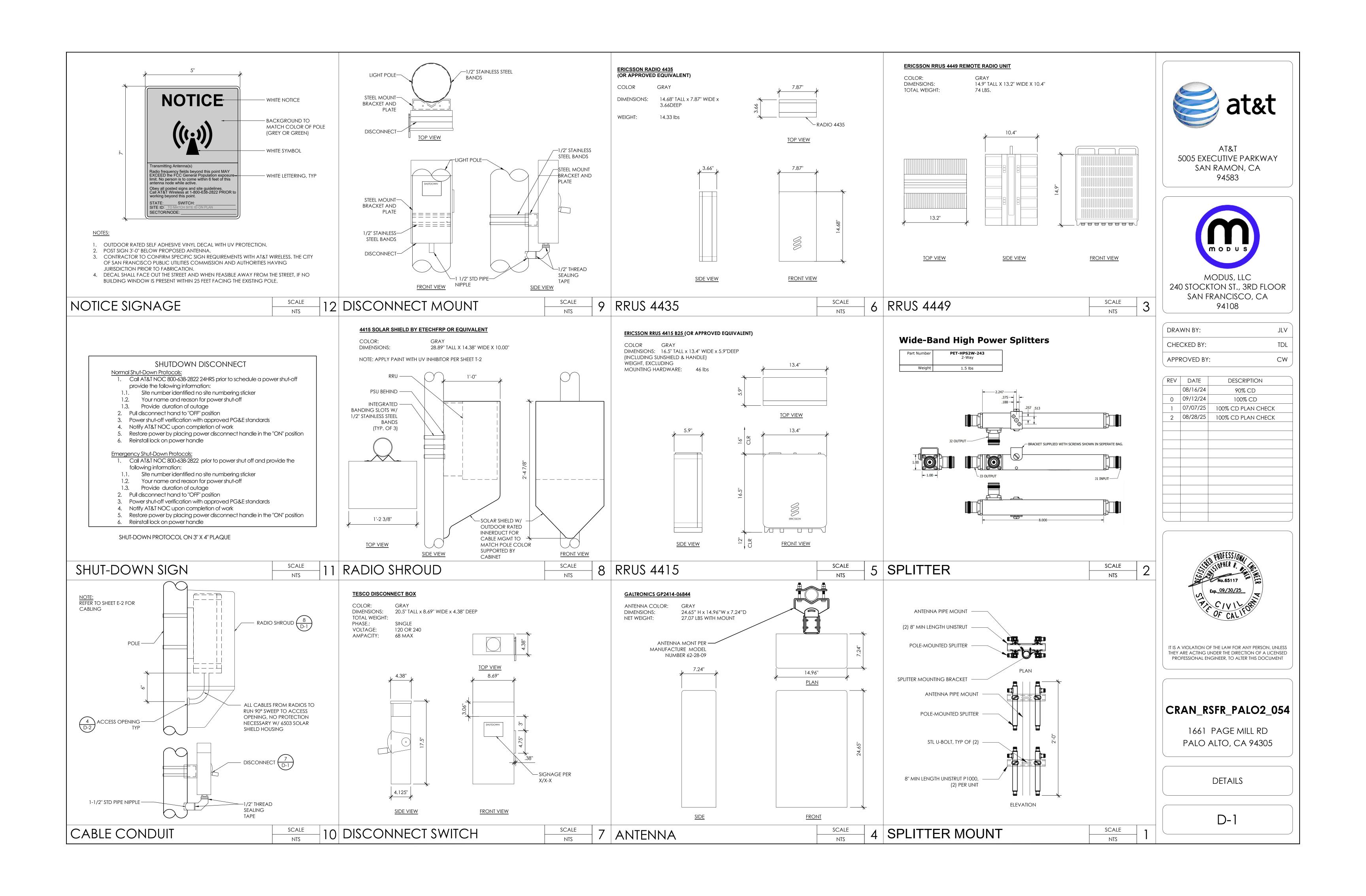
SITE PLAN

A-1









SIDEWALK GENERAL NOTES:

- 1) SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.
- 2) WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, REMEDIAL WORK SHALL BE DONE UNDER THE DIRECTION OF THE CITY ENGINEER, INCLUDES BUT IS NOT LIMITED TO, REMOVING UNSUITABLE
- MATERIAL AND PLACING A LAYER OF CLASS II AGGREGATE BASE UNDER THE INSTALLATION. 3) UNDERCUT SUBGRADE FOR GUTTER OR SIDEWALK SHALL BE FILLED WITH APPROVED GRANULAR
- 4) EXISTING CONCRETE SHALL BE REMOVED AT EXPANSION OR WEAKENED PLANE JOINTS OR AT SAWCUTS.
- 5) SAWCUTS MUST BE FULL DEPTH.
- 6) NO UTILITY BOXES, POLES, POSTS OR ANY OTHER FACILITIES OR DEVICES WILL BE PERMITTED IN THE SIDEWALK AREA WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER.
- 7) NEW WORK SHALL MATCH EXISTING SCORE AND COLOR.
- 8) SUBGRADE SHALL BE THOROUGHLY WETTED IMMEDIATELY PRIOR TO PLACING CONCRETE.
- 9) CONCRETE SHALL BE CLASS B-5 SACK MIX WITH 3/4 INCH MAXIMUM AGGREGATE.
- 10) CONCRETE SHALL HAVE A SLUMP OF NOT MORE THAN 4 INCHES. 11) NO ADMIXTURES SHALL BE USED WITHOUT THE PERMISSION OF THE CITY ENGINEER.
- 12) 1/2" THICK EXPANSION JOINTS SHALL BE PLACED ON BOTH SIDES OF DRIVEWAY APPROACHES, CURB,
- GUTTER, AND SIDEWALK RETURN POINTS AND AT 20' ON CENTER. 13) WEAKENED PLANE JOINTS AT LEAST 1 1/2" DEEP SHALL BE PLACED AT THE CENTER OF DRIVEWAYS AND 20' ON CENTER.
- 14) 1/4' DEEP SCORE MARKS SHALL BE PLACED AS DESCRIBED IN THE STANDARD SPECIFICATIONS OR AS
- DIRECTED BY CITY ENGINEER. 15) NO CONCRETE SHALL BE PLACED UNTIL THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE HAS
- INSPECTED AND APPROVED FORMS OF SUBGRADE.
- 16) ALL EXPOSED EDGES SHALL BE ROUNDED WITH 1/2" RADIUS TOOL. 17) ALL SURFACES SHALL BE BROOM FINISHED UNLESS OTHERWISE NOTED.
- 18) CURBS, SIDEWALKS AND DRIVEWAY APPROACHES SHALL BE BACKFILLED WITHIN 7 DAYS AFTER
- PLACING CONCRETE. THIS SHALL INCLUDE ANT REQUIRED AC PATCHWORK. 19) FORM FACES SHALL NOT VARY FROM THE DIMENSIONS SHOWN BY MORE THAN .02 FEET. FORMS SHALL
- 20) UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS, CONCRETE SHALL BE CURED BY MEANS OF THE IMPERVIOUS MEMBRANE METHOD.
- 21) ALL SIDEWALK CONSTRUCTION ADJACENT TO CURB SHALL BE POURED MONOLITHIC WITH CURB UNLESS OTHERWISE APPROVED BY ENGINEER.
- 22) ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COMPLETED NO LATER THAN 5 DAYS AFTER INSTALLATION OF UTILITY.
- 23) A MINIMUM OF 6" OF ASPHALT SHALL BE REMOVED ALONG THE GUTTER LIP FOR THE INSTALLATION OF FORMS. FOR CURB AND GUTTER INSTALLATIONS AC SHALL BE BROUGHT TO FINISH GRADE OF FORMS
- AND TRANSITIONED AS REQUIRED BY THE CITY ENGINEER. 24) ALL FACE ANGLE INSTALLATIONS IN RETURNS SHALL MATCH EXISTING RADIUS OF CURB.

CONCRETE NOTES:

- 1) ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14. 2) CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY
- ENGINEER OF RECORD OF ANY DISCREPANCIES.
- 3) CEMENT SHALL CONFORM TO ASTM C150, TYPE II. 4) CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
- 5) ALL CONCRETE SHALL BE A 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28
- 6) ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE
- NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
- 7) MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETERS UNLESS OTHERWISE NOTED. 8) MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- 9) MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
- 10) CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED SOIL AT DEPTH SHOWN. 11) BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL.
- 12) ALL ANCHOR BOLTS & THREADED ROD SHALL BE ASTM F1554 GRADE 55 MINIMUM, UNLESS OTHERWISE NOTED: NEW: & WITHOUT SIGNIFICANT RUST. TOP 2 FEET & HARDWARE TO BE GALVANIZED PER ASTM
- 13) A 1/2" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
- 14) REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
- 15) ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

WELDING

1) ALL WELDS SHALL BE SHIELDED METAL ARC TYPE (SMAW), IN ACCORDANCE WITH THE "STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", AWS D1.1, BY THE AMERICAN WELDING SOCIETY.

2) WELDING ROD SHALL BE E70XX, MINIMUM (70 KSI).

3) PERIODIC INSPECTION IS PERMITTED FOR THE FOLLOWING: - SINGLE PASS FIELD WELDS NOT EXCEEDING 5/16"

MANUFACTURER'S PACKAGING UNTIL READY FOR IMMEDIATE USE.

4) REMOVE ALL EXISTING CONDUCTORS AND GROUND WIRES FROM POLE PRIOR TO WELDING AND INSTALL NEW AFTER WELDING IS COMPLETE IN ACCORDANCE WITH STANDARD SPECIFICATION 86-2.04 (B)

5) WELDING TO BE PERFORMED BY AN AWS CERTIFIED WELDER FOR THE TYPE OF AND POSITION INDICATED. ALL WORK MUST BE IN CONFORMANCE WITH LATEST EDITION OF AISC & AWS D1.1.

6) GRIND SURFACES TO BE WELDED WITH A SILICON CARBIDE WHEEL PRIOR TO WELDING TO REMOVED ALL GALVANIZING WHICH MAY OTHERWISE BE CONSUMED IN THE WELD METAL. APPLY ANTI-SPATTER COMPOUND AFTER GRINDING.

7) WELDING TECHNIQUE MUST MINIMIZE TEMPERATURE RISE ON THE INSIDE SURFACE OF THE LIGHT POLE AND ALSO VOLATIZE ANY REMAINING ZINC WITHIN THE BASE METAL WITH MINIMUM SPATTER. USE AN E70 (LOW HYDROGEN) ELECTRODE. USE LARGEST DIAMETER ELECTRODE COMPATIBLE WITH WELDING POSITION AND MATERIAL THICKNESS. STRICTLY FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR STORAGE AND USE OF ELECTRODES. AVOID REMOVING ELECTRODES FROM

8) WELDING MAY PRODUCE TOXIC FUMES. REFER TO ANSI STANDARD Z49.1 "SAFETY IN WELDING AND CUTTING" FOR PROPER PRECAUTIONS.

9) UPON COMPLETION OF WELDING, APPLY GALV-A-STICK ZINC COATING TO ALL UNPROTECTED SURFACES. APPLY A SECOND LAYER OF COLD GALVANIZING SPRAY COMPOUND CONTAINING A MINIMUM ZINC CONTENT OF 95%. APPLY A FINAL COAT OF COMPATIBLE PAINT TO MATCH SURROUNDING SURFACES.

EXCEPTION-

CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING (NOT LISTED ABOVE) UNLESS PERFORMED IN AN APPROVED FABRICATOR'S SHOP.

1) FOUNDATION SOIL STRATA IS NATIVE SOIL OR ENGINEERED FILL AS PER THE PROJECT SOILS REPORT WHEN APPLICABLE. IF THERE ARE ANY DISCREPANCIES BETWEEN THE SOILS REPORT & THESE PLANS, THE SOILS REPORT SHALL GOVERN. SOILS REPORT: N/A

WHEN NO SOILS REPORT IS AVAILABLE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SOIL CONDITIONS ARE APPROPRIATE FOR THE CONSTRUCTION OF THIS PROPOSED PROJECT AS SHOWN WITHIN. SOIL DESIGN IS BASED ON CBC SOIL TYPE 5-CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, AND SANDY SILT (CL, ML, MH AND CH). IF MATERIALS OTHER THAN THOSE LISTED HEREIN ARE PRESENT, OR IF SOIL ENCOUNTERED IS OTHERWISE UNSUITABLE, A GEOTECHNICAL ENGINEER SHALL BE RETAINED FOR OBSERVATION AND RECOMMENDATIONS BEFORE PROCEEDING WITH CONSTRUCTION. AS A RESULT, INCREASED FOOTING DIAMETER AND/OR DEPTH MAY BE

- 2) FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED SOIL STRATA, OR ENGINEERED FILL.
- 3) THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL.
- 4) CENTER FOOTINGS UNDER COLUMNS UNLESS OTHERWISE INDICATED. 5) OWNER/DEVELOPER AND APPROPRIATE SUBCONTRACTOR(S) ARE RESPONSIBLE FOR REVIEWING THE SOILS REPORT (IF APPLICABLE) PRIOR TO COMMENCING CONSTRUCTION.
- 6) THE CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL PROPERTY LINES AND CORNERS AND SHALL ENSURE THAT CONSTRUCTION IS WITHIN ALL APPLICABLE SETBACKS AND EASEMENTS.
- 7) THE ENTIRE AREA TO BE COVERED BY STRUCTURES SHALL BE CLEARED AND GRUBBED TO REMOVE SURFACE VEGETATION AS REQUIRED.

- DESIGN STANDARD: 2013 AASHTO-LTS6
- WIND SPEED: 85 MPH
- WIND EXPOSURE: C
- SOIL LATERAL BEARING VALUE: 1500 PSF

- 1) STOP FOUNDATION POUR 3 1/2" BELOW GRADE. PLACE FINISH CAP AFTER STANDARD IS SET AND
- PLUMBED. BUILD UP GROUT UNDER STANDARD BASE ON LOW SIDE (TYP.). 2) SURFACE OF FINISH CAP TO BE AT GRADE AND SLOPED TO MATCH EXISTING OR FUTURE
- 3) ANCHOR BOLT DIA AND AB BOLT CIRCLE DIA AS INDICATED (TYP.). 1" DIA BOLT LENGTH = 36";
- 1-1/4" DIA BOLT LENGTH = 42"
- 4) STANDARDS TO BE SET AT 1'-9" TO CENTER FROM BACK OF CURB UNLESS SHOWN OTHERWISE.

NOT USED

NOT USED

PORT TYPE MAXIMUM HOLE DISCONNECT / RRU 1 3/4" TAPERED LIGHT POLE ─ AT RRU: 1-1/2" RUBBER GROMMET TAPERED LIGHT POLE -RUBBER GROMMET GRAINGER 3MPN5 OR EQUIVALENT AT RRU: 1-1/2" RUBBER GROMMET - AT DISCONNECT: 1' SCH 40 PVC THRU BOTTOM OF BASE PLATE 1-1/2" RUBBER



5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

	REV	DATE	DESCRIPTION
		08/16/24	90% CD
Ī	0	09/12/24	100% CD
	1	07/07/25	100% CD PLAN CHECK
	2	08/28/25	100% CD PLAN CHECK
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DETAILS

D-2

7 CABLE ACCESS PORT STRUCTURAL NOTES

4 NOT USED

GROMMET

SCALE NTS

ELECTRICAL NOTES

GENERAL REQUIREMENTS

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT NOT IN COMPLIANCE.
- 2. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- 3. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- 4. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.
- 5. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.

 4. "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE ELIPHISHED, INSTALLED AND
- 6. "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.

GROUNDING

- THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES. ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
 FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC
- 3. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- 4. REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- 5. ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- 6. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED, THHN (GREEN) INSULATION.
- 7. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED
- OTHERWISE.

 8. PAINT SHALL BE REMOVED AT ALL GROUND CONNECTIONS

 9. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF
- 9. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE
 RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION
 ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS
 AND FURNISH TO VERIZON ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED
 WORK"

UTILITY SERVICE

- 1. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- 2. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

<u>PRODUCTS</u>

- 1. ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- CONDUIT:
 RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- 2.2. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE
- COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

 2.3. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN
- 2.4. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- 2.5. ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.

LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

- 3. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.
- 4. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER
- CODE TO ACCOMMODATE ALL DEVICES AND WIRING.

 5. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE
- 6. PANELBOARD SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARD AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE
- TYPEWRITTEN CIRCUIT DIRECTORY.

 7. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

 8. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG.
 COPPERWELD OR APPROVED EQUAL.
- 9. CONDUIT REQUIREMENTS (TYP., U.N.O.): UNDERGROUND: PVC (SCHED 40 OR 80), INDOOR: EMT (RGS IN TRAFFIC AREAS, OUTDOOR (ABOVE GRADE): RGS.

10. PLACE "TRUE TAPE" AND PULL ROPE IN THE CONDUITS AS REQUIRED.

<u>INSTALLATION</u>

 PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC.., EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

GENERAL ABBREVIATIONS

Α	AMPERE	MFR	MANUFACTURER
ACCA	ANTENNA CABLE COVER	MIN	MINIMUM
	ASSEMBLY	MLO	MAIN LUGS ONLY
AIC	AMPERE INTERRUPTING	MTD	MOUNTED
	CAPACITY	MTG	MOUNTING
APPROX	APPROXIMATELY	MTS	MANUAL TRANSFER SWITCH
AT	AMPERE TRIP	Ν	NEUTRAL
AWG	AMERICAN WIRE GAGE	(N)	NEW
BATT	BATTERY	NEMA	NATIONAL ELECTRICAL
BD	BOARD		MANUFACTURERS ASSOC.
BR	BRANCH	OH	OVERHEAD
BRKR	BREAKER	Р	POLE
BTCW	BARE TINNED COPPER WIRE	PCS	PERSONAL
BTS	BASE TRANSMISSION SYSTEM		COMMUNICATION SYSTEM
С	CONDUIT	PH	PHASE
CAB	CABINET	PNLBD	PANELBOARD
СВ	CIRCUIT BREAKER	PPC	POWER PROTECTION CABINE
CKT	CIRCUIT	PRC	PRIMARY RADIO CABINET
CONT	CONTINUOUS	PRI	PRIMARY
DEM	DEMAND	PWR	POWER
(E)	EXISTING	RCPT	RECEPTACLE
EGR	EMERGENCY GEN. RECEPTACLE	RGS	RIGID GALVANIZED STEEL
ELEC	ELECTRICAL	SAF	SAFETY
EMT	ELECTRICAL METALLIC TUBING	SDBC	SOFT DRAWN BARE COPPER
ENCL	ENCLOSURE	SEC	SECONDARY
EXIST	EXISTING	S.N.	SOLID NEUTRAL
FAC	FACTOR	SURF	SURFACE
F/A	FIRE ALARM	SW	SWITCH
FLUOR	FLUORESCENT	TEL	TELEPHONE
FT	FOOT/FEET	TYP	TYPICAL
FU	FUSE	U/G	UNDERGROUND
G	GROUND	U.L.	UNDERWRITER'S LABORATOR'
GEN	GENERATOR		INC.
GFCI	GROUND FAULT CIRCUIT	U.N.O.	UNLESS NOTED OTHERWISE
	INTERRUPTER	V	VOLT
GND	GROUNDING	VAC	VOLT ALTERNATING CURRENT
GPS	GLOBAL POSITIONING SYSTEM	W	WATT OR WIRE
GR	GROWTH	W/	WITH
HDBC	HARD DRAWN COPPER WIRE	W/O	WITHOUT
HPS	HIGH PRESSURE SODIUM	XFER	TRANSFER
LG	LENGTH	XFMR	TRANSFORMER
LPS	LOW PRESSURE SODIUM	XLPE	CROSS-LINK POLYETHYLENE
MAX	MAXIMUM	/\L	S. COO E. W. POETEITTEENE
MECH	MECHANICAL		

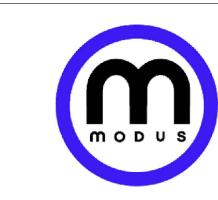
ELECTRICAL LEGEND

GROUND

	TELCO
—— Е ——	ELECTRICAL
——— LINE ———	LINE
гі	LINE 1
——— LOAD ———	LINE 1
——— L2 OR N ———	L2 OR NEUTRAL
——— E/T ———	ELECTRICAL/TELCO
—— A ——	COAX
—— FO ——	FIBER
——— O/H ———	OVERHEAD
—— ОН Р/Т ——	OVERHEAD POWER/TELCO
——— ОНТ ———	OVERHEAD TELCO
——————————————————————————————————————	OVERHEAD POWER
	FUSE
•	MECHANICAL CONNECTION
	CIRCUIT BREAKER
●	5/8" X 10'-0" ,CU. GROUND ROD 24" MIN. BELOW GRADE



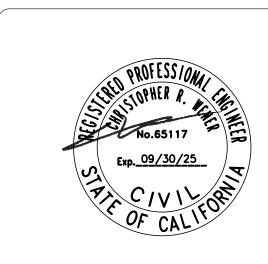
AT&T 5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

ı		
	DRAWN BY:	JLV
	CHECKED BY:	TDL
	APPROVED BY:	CW

REV	DATE	DESCRIPTION	`
	08/16/24	90% CD	
0	09/12/24	100% CD	
1	07/07/25	100% CD PLAN CHECK	
2	08/28/25	100% CD PLAN CHECK	



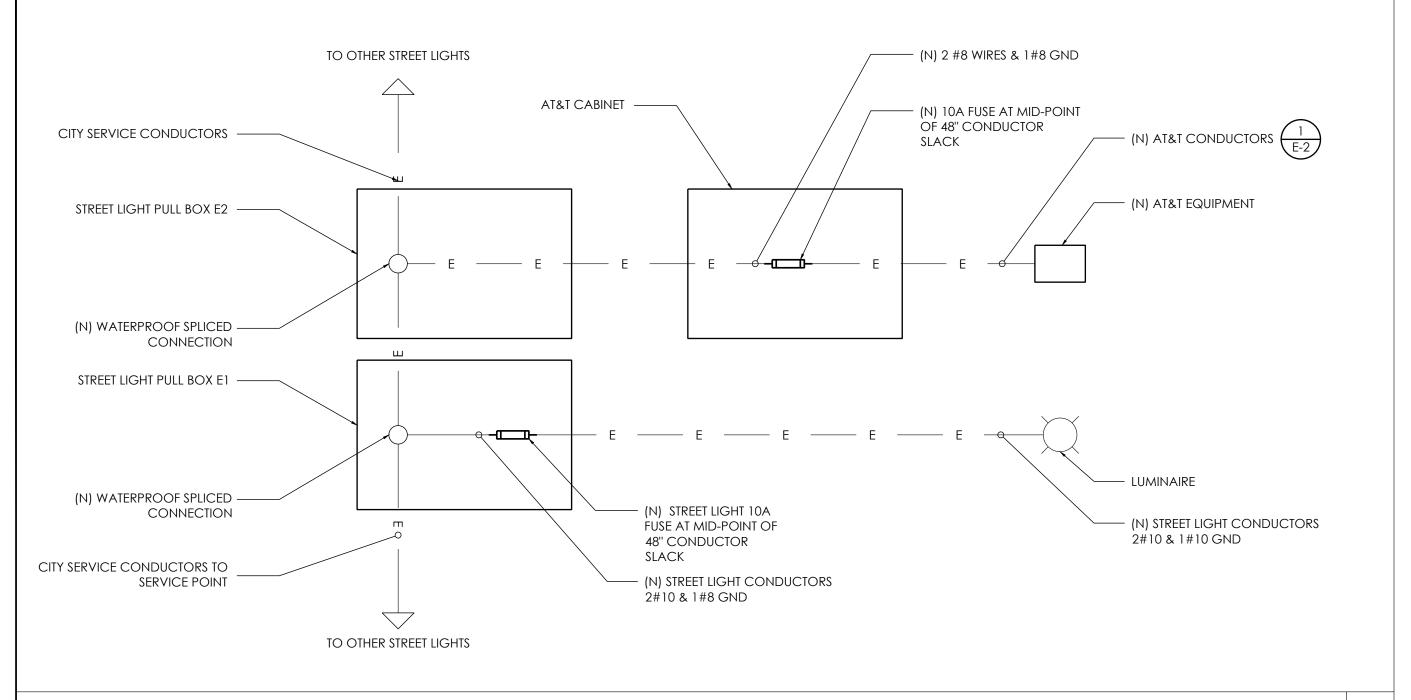
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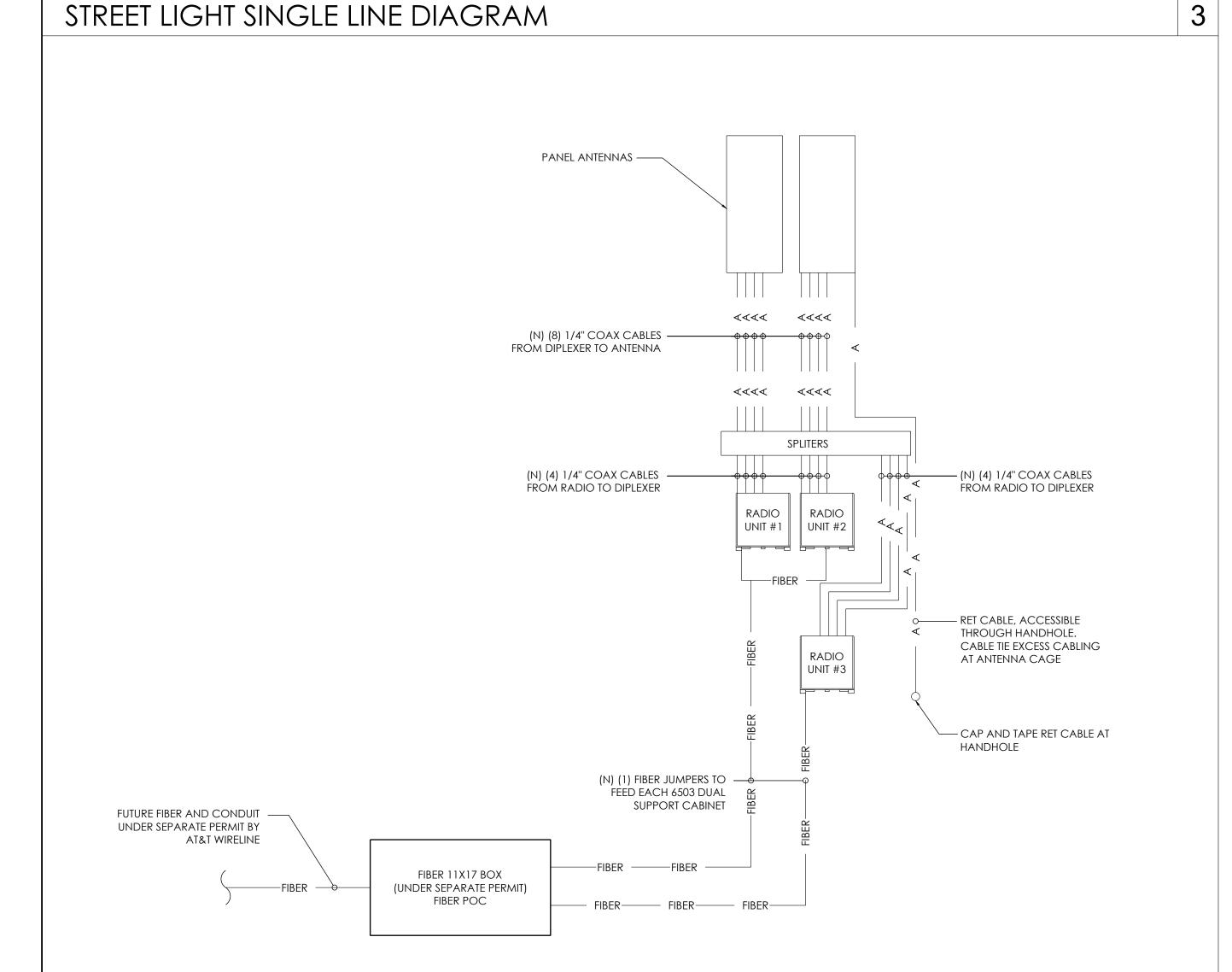
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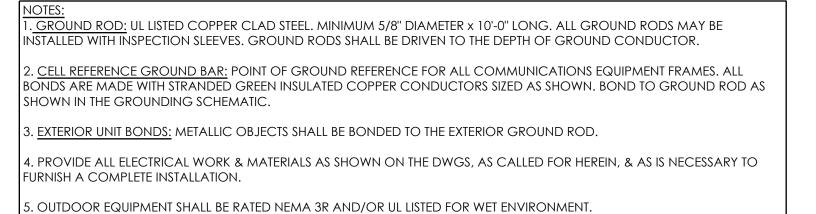
ELECTRICAL GENERAL NOTES

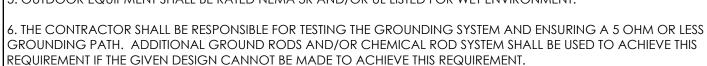
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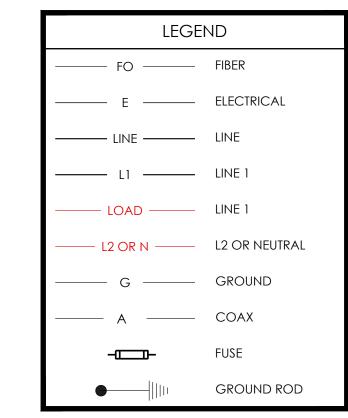


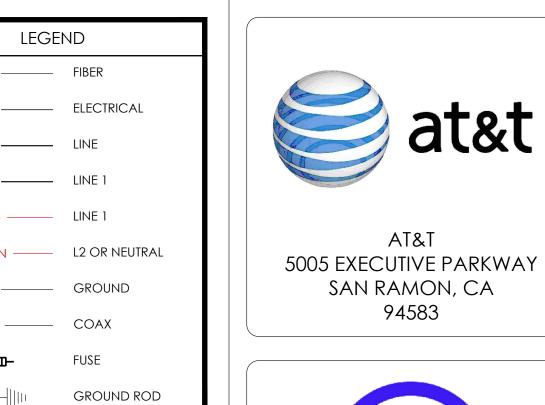


FIBER/COAX DIAGRAM









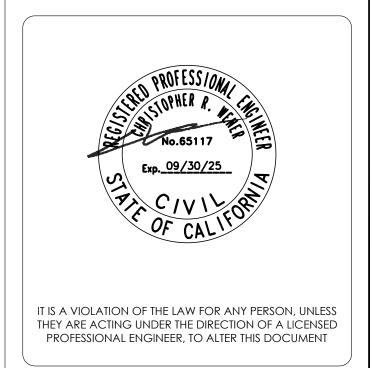


AT&T

94583

DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

REV	DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
2	08/28/25	100% CD PLAN CHECK

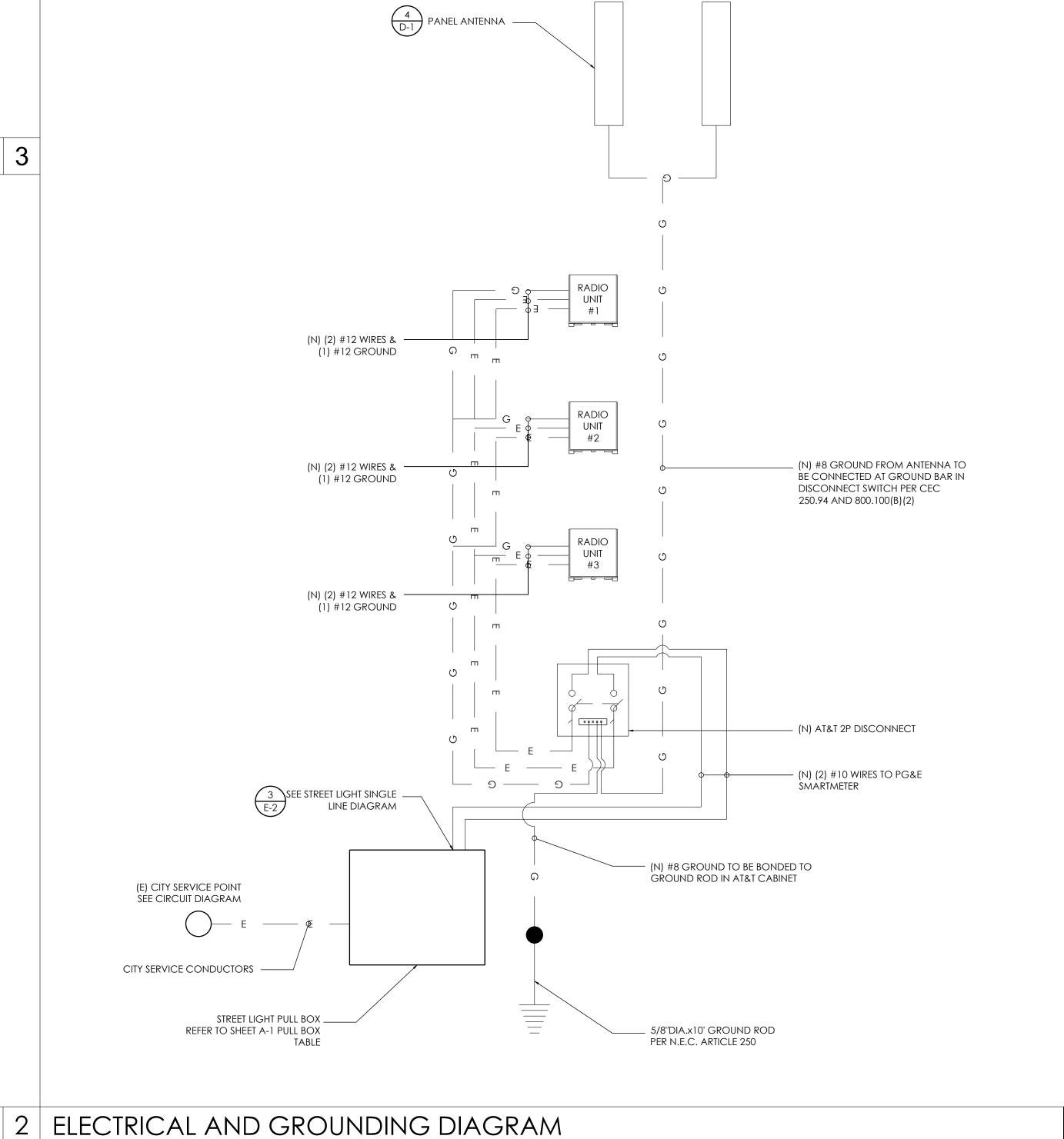


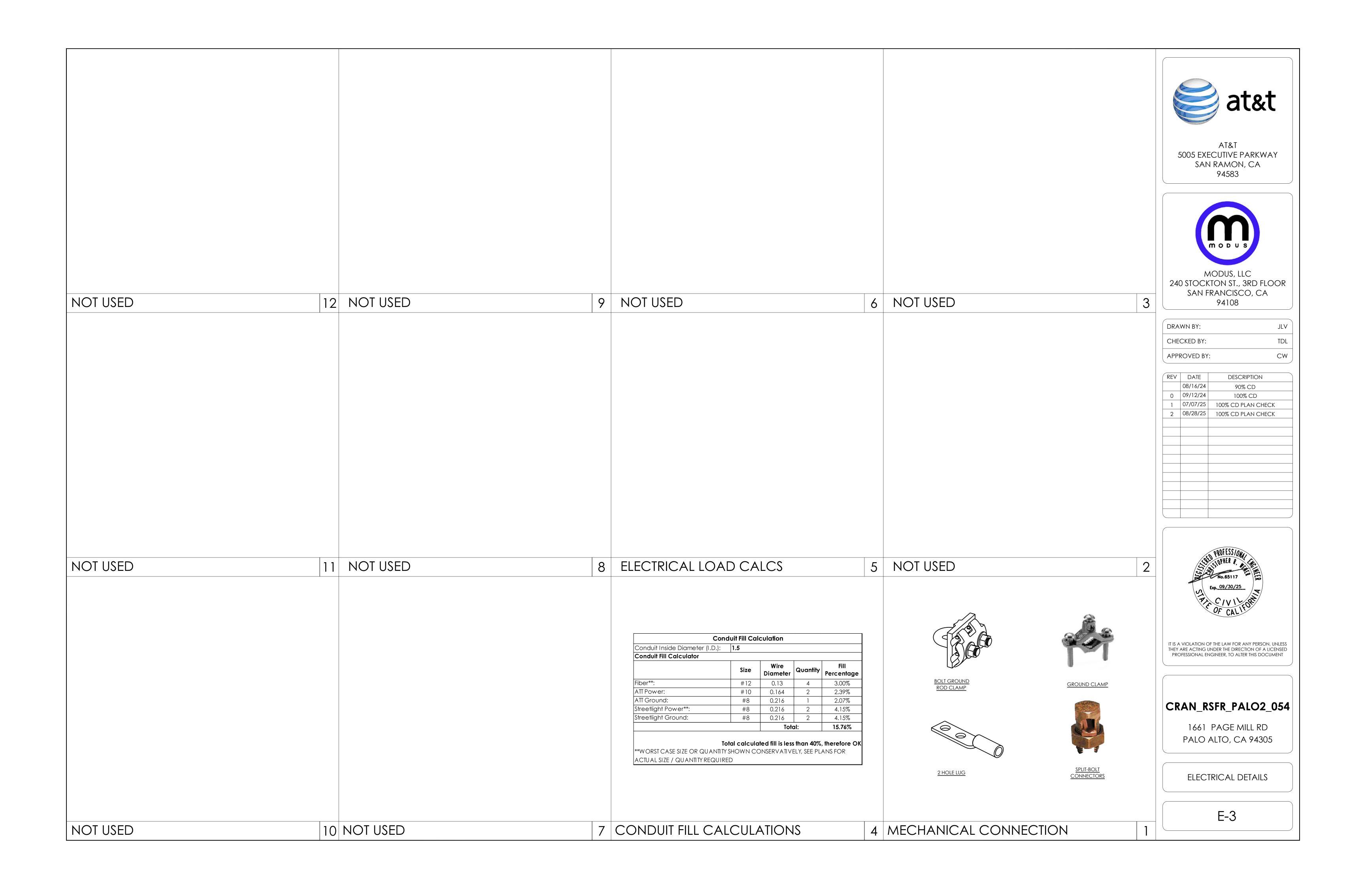
CRAN_RSFR_PALO2_054

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ELECTRICAL SINGLE-LINE AND GROUNDING DIAGRAM

E-2







July 24, 2024

ATT WIRELESS Client Site Number: CRAN_RSFR_PALO2_054

PROJECT DESCRIPTION: The carrier proposes the following scope of work:

- Add new pole and foundation
- Add (2) 5G antenna(s) to the pole
- Add radio(s) to the pole
- Add entry ports as required in the pole

The purpose of this analysis is to determine if the pole and foundation is structurally adequate to support the proposed loading. The pole has been analyzed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (6th Edition 2013).

RESULTS:

Based on our review of the structure with the proposed loading, we have determined the following:

PoleOK * OK * Foundation

* See Recommendations Section



ASSUMPTIONS:

- The pole is plumb, undamaged, and not deteriorated in any way that would compromise 100% of
- design capacity
- Cohesive Soil Shear Strength of 1500 psf

• Pole material is Aliminium with yield strength Fy = 35 ksi

REFERENCES:

- Construction Drawings prepared by Modus LLC
- Photos and Notes from Site Visit

RECOMMENDATIONS:

The proposed pole and proposed foundation can safely support the proposed scope of work.

All assumptions listed above to be verified prior to the installation of the equipment as listed in the project description.

Sincerely,

Chris Wener, P.E.



07.24.24



CRAN_RSFR_PALO2_054

Exposure Coefficient $K_z = 2.01(z/z_g)^{2/\alpha}$:

Effective Projected Area EPA = C_dA:

Design Wind Pressure $P_z = .00256K_zGV^2I$:

Gust Factor:

 $W = P_z EPA$:

29-07-2024

Wind Drag Coefficient C_d:

Projected Area A:

29-07-2024

Design Criteria

Design Standard:	2013 AASH	ITO LTS-6	
Wind Speed:	85	mph	AASHTO LTS-6 section 3.8.2
Wind Exposure:	С		ASCE7-16 Section 26.7
Cohesive Soil Shear Strength:	1500	psf	CalTrans 2017 Standard Plans User Guide
Wind Load on Highway Signs and Light S	Standards		Pole Top Antenna Shroud
			Example Calc
AASHTO LTS-6 Section 3			
Wind Importance Factor I _r :	1.00		AASHTO LTS-6 tables 3.8.3-1 and 3.8.3-2
			based on a Design Life of 50 years
Basic Wind Speed V _{3-Sec} :	85	mph	AASHTO LTS-6 section 3.8.2
Exposure Category:	С		ASCE7-16 Section 26.7
α: 9.5 z_c		ft	K _{zmin} : 0.87
AASHT	O LTS-6 section	on C3.8.4	
Centroid Highest Appurtenance z AGL:	28.00	ft	

0.97

1.14

20.41

0.45

7.00

3.15

64 ASD



CRAN_RSFR_PALO2_054

Item	Existing	Centroid	Projected	Shape	Drag	EPA	EPA	W	M Wind
	or	AGL	Area		Coefficient	+	-	ASD	ASD
	Proposed	ft	sq ft		C _d	sq ft	sq ft	#s	ft-#s
Design Wind Pressure P_z =	-	20.41	psf						
Pole (Round)	Р	13.33	16.33	R	0.81	13.17	0.00	269	3586
Luminaire Arm	Р	28.69	0.59	R	1.10	0.64	0.00	13	377
Luminaire	Р	30.00	N/A	R	N/A	0.30	0.00	6	184
Antenna	Р	28.00	21.00	R	0.45	9.45	0.00	193	5401
SOLAR SHIELD W/RRU 4435	Р	17.75	2.88	R	1.19	3.43	-1.09	48	849
SOLAR SHIELD W/RRU 4449	Р	14.84	2.88	R	1.19	3.43	-1.12	47	700
SOLAR SHIELD W/RRU 4415	Р	11.84	2.88	R	1.19	3.43	-1.16	46	550
Disconeect	Р	8.00	0.42	R	1.17	0.49	-1.20	-15	-117
								Shear	Moment
Base Transverse Wind Rea	ctions Tot	al (ASD):						608	11529



Service Light Pole Loading (Transverse Wind Load) Includes Pole Masking as Applicable

AASHTO LTS-6 equation C3.8.4-1

29-07-2024

AASHTO LTS-6 section 3.8.5

AASHTO LTS-6 table 3.8.6-1

psf AASHTO LTS-6 equation 3.8.3-1

Item	Existing	Centroid	Projected	Shape	Drag	EPA	EPA	W	M Wind
	or	AGL	Area		Coefficient	+	-	ASD	ASD
	Proposed	ft	sq ft		C _d	sq ft	sq ft	#s	ft-#s
Design Wind Pressure P_z =	=	20.41	psf						
Pole (Round)	Р	13.33	16.33	R	0.81	13.17	0.00	269	3586
Luminaire Arm	Р	28.69	0.59	R	1.10	0.64	0.00	13	377
Luminaire	Р	30.00	N/A	R	N/A	0.30	0.00	6	184
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SOLAR SHIELD W/RRU 4415	Р	11.84	2.88	R	1.19	3.43	-1.16	46	550
Disconeect	P	8.00	0.42	R	1.17	0.49	-1.20	-15	-117
								Shear	Moment
								608	



CRAN_RSFR_PALO2_054

Service Light Pole Loading (Normal Wind Load)

Item	Existing	Centroid	Projected	Shape	Drag	EPA	W	M Wind	Centroid	Torque
	or	AGL	Area		Coefficient		ASD	ASD	Horizontal	ASD
	Proposed	ft	sq ft		C _d	sq ft	#s	ft-#s	ft	ft-#s
Design Wind Pressure P_z =		20.41	psf							
5	_			_						
Pole (Round)	P	13.33	16.33	R	0.81	13.17	269	3586	0	0
Luminaire Arm	Р	28.69	1.96	R	1.10	2.16	44	1265	3.79	167
Luminaire	Р	30.00	N/A	R	N/A	0.60	12	367	9.0	110
Antenna	Р	28.00	21.00	R	0.45	9.45	193	5401	0	0
SOLAR SHIELD W/RRU 4435	Р	17.75	2.88	S	1.19	3.43	70	1244	0	0
SOLAR SHIELD W/RRU 4449	Р	14.84	2.88	S	1.19	3.43	70	1040	0	0
SOLAR SHIELD W/RRU 4415	Р	11.84	2.88	S	1.19	3.43	70	829	0	0
Disconeect	Р	8.00	0.42	S	1.17	0.49	10	79	0	0
							Shear	Moment		Torqu
Base Normal Wind Reaction	s Total (ASE)):					738	13812		278

Notes: This calculation accounts for pole, luminaire arm(s), luminaire(s), and Carrier proposed equipment only See next sheet for additional calculation for site specific signage, banners, etc, if applicable



29-07-2024

CRAN_RSFR_PALO2_054

Service Light Pole Sign Moment & Pole Masking (Normal Wind Load) AGL Coefficient ASD Area sq ft 20.41 psf

ASD ft-#s Design Wind Pressure P_z = E 24.00 0.49 F 1.13 0.19 0.00 4 95 4 95 Base Normal Signage and Masking Wind Reactions Total (ASD):

Pole masking accounts for pole surface area masked by Signs or Equipment

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AT&T 5005 EXECUTIVE PARKWAY

SAN RAMON, CA

94583

MODUS, LLC

240 STOCKTON ST., 3RD FLOOR

SAN FRANCISCO, CA

94108

DESCRIPTION

90% CD

100% CD

100% CD PLAN CHECK

2 08/28/25 100% CD PLAN CHECK

JLV

TDL

CW

DRAWN BY:

CHECKED BY:

REV DATE

0 09/12/24

1 07/07/25

APPROVED BY:

08/16/24

1661 PAGE MILL RD PALO ALTO, CA 94305

STRUCTURAL ANALYSIS

SA-1



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: CRAN_RSFR_PALO2_054 Site Structure Type: Utility Pole
Address: (NEAR) 1661 PAGE MILL RD Latitude: 37.410145
PALO ALTO, CA 95304 Longitude: -122.152965
Report Date: September 09, 2024 Project: Modification

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the CRAN_RSFR_PALO2_054 installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the antenna to authorized personnel that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification

I, Tim Alexander, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

7430 New Technology Way, Suite 150 Frederick, Maryland 21703 (703) 596-1022 Phone www.waterfordconsultants.com

CRAN_RSFR_PALO2_054 - Modification 08.15.2024

Table 1: FCC Limits

	Limits for General Populate	ion/ Uncontrolled Exposure	Limits for Occupational/	Controlled Exposure
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

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

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

 $S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \text{ (mW/cm}^2\text{)}$

Where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

 $S = \left(\frac{180}{\theta_{\text{RW}}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2)$

Where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less that the levels reported below. These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

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

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CRAN RSFR PALO2 054 - Modification 08.15.2024

Analysis

AT&T Mobility proposes the following installation at this location:

INSTALL (2) NEW 2' PANEL ANTENNA ON TOP OF LIGHT POLE
INSTALL (1) NEW RADIO 4415, (1) RADIO 4435 AND (1) RADIO 4449 ON LIGHT POLE

The antennas will be mounted on a 30'-2" Utility Pole with centerlines 30'-0" above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.



Figure 1.1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 1.46% of the FCC General Population limits. Incident at adjacent Structure

Page 3 7430 New Technology Way, Suite 150 Frederick, Maryland 21703 (703) 596-1022 Phone www.waterfordconsultants.com MODUS, LLC 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108

AT&T

5005 EXECUTIVE PARKWAY

SAN RAMON, CA

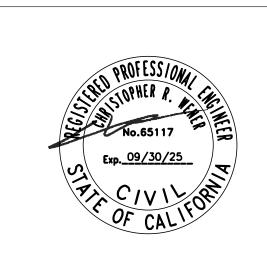
94583

DRAWN BY: JLV

CHECKED BY: TDL

APPROVED BY: CW

REV	DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
2	08/28/25	100% CD PLAN CHECK



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

CRAN RSFR PALO2 054

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EME REPORT

EME-1

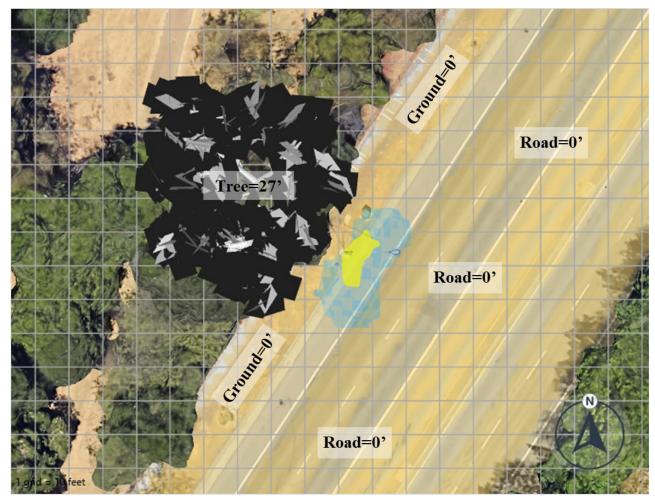
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depicted in Figures, the maximum predicted power density level resulting from all AT&T Mobility operations is 0% of the FCC General Population limits (Figure 1.2). The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings

On the pole in front of the antennas, predicted MPE levels will exceed the FCC General Population limits within 37 feet in front of the antennas and within 7 feet below the antennas. The maximum predicted power density level resulting from all AT&T Mobility operations directly in front of the antennas is 5212.86% of the FCC General Population limits (1042.572% of the FCC Occupational limits). Waterford Consultants, LLC recommends posting RF alerting signage (ACP Caution) on the pole visible upon approach that informs personnel accessing this area of basic precautions to be followed when working around antennas. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.

The following plots show the cumulative spatial average predicted power density levels in the reference plane indicated as a percentage of the General Public Limits. Please note that 100% of the General Public Limits corresponds to 20% of the Occupational Limits.

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Carriers
AT&T
ion RCF
3 1.0
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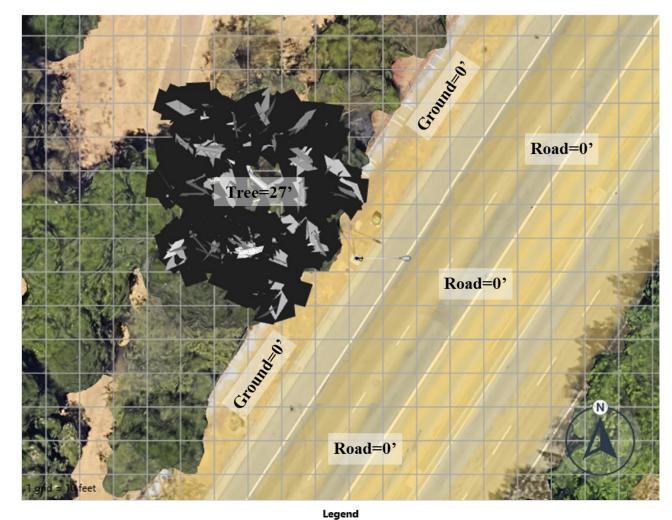
Grid Size: 10.00 feet

Floor = Elevation +6' | Mid-Level = Elevation +/- 3'

• Antenna | evel

Figure 1.1: Antenna Level

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 Study Zone
 Elev. (ft)
 Type
 Exposure Profile
 Max MPE
 Att
 Carriers

 Ground
 0.1
 Floor
 2D Sula9 GP 0.5 res
 1.46%
 0.00
 AT&T

 5%-100%
 100%-500%
 500%-5000%
 5000%+

 Exposure Profile Name
 Model
 Exposure Area
 Standard
 Resolution
 RCF

 2D Sula9 GP 0.5 res
 Sula 9
 Spatial Average (6 ft)
 FCC General Population
 0.5 ft3
 1.0

Grid Size: 10.00 feet Floor = Elevation +6' | Mid-Level = Elevation +/- 3'

Figure 1.2: All Level

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Compliance Requirement Diagram (Access Location)

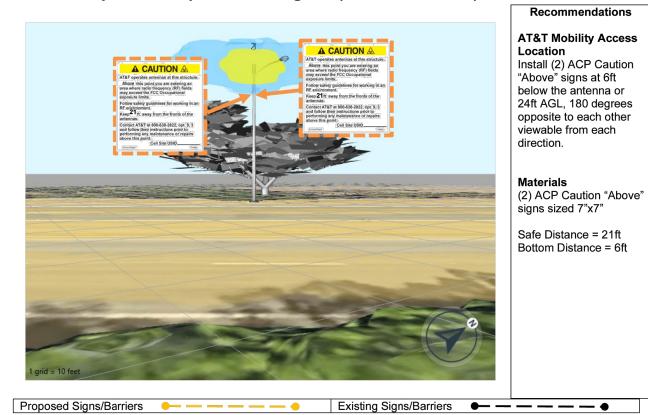
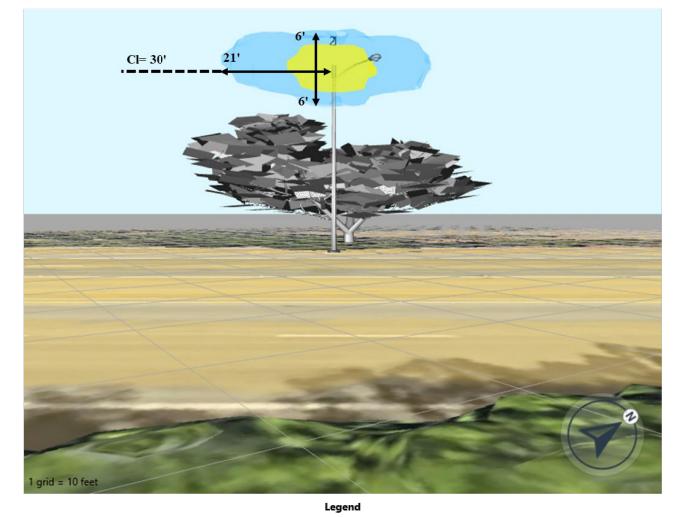


Figure 2: Mitigation Recommendations

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Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att		Carriers
Antenna Level	10.0 - 50.0	3D Area	3D Sula9 GP 2.5 res	5212.86%	0.00		AT&T
100%-500%	3		500%-5000%			5000%+	
Exposure Profile Name		Model	Exposure Area	S	Standard	Resolution	RCF
3D Sula9 GP 2.5 res		Sula 9	Spatial Average (6 ft)	FCC Ger	neral Population	2.5 ft3	1.0

Floor = Elevation +6' | Mid-Level = Elevation +/- 3'
Figure 1.3: Elevation Level

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Grid Size: 10.00 feet

Appendix A: Operating Parameters Considered in this Analysis

Ant #	Carrier	Manufacturer	Antenna Model	Туре	EDT (deg)	Frequency (MHz)	Band	Az (deg)	MDT (deg)	HBW (deg)	Length (ft)	Gain (dBd)	Power in (W)	TPO (W)	Paths	Attenuation (dB)	Line Loss (dB)	Other Loss (dB)	ERP (W)	EIRP (W)	Antenna Centerline Ground Level (0ft)	Bottom of Antenna Ground Level (0ft)
1	AT&T Mobility	GALTRONICS	GP2414-06844	Panel	0	700	B12	60	0	73	2	6.25	80	20	4	0	0	0	337.36	553.46	30	29
1	AT&T Mobility	GALTRONICS	GP2414-06844	Panel	0	1900	B25	60	0	76	2	10.05	80	20	4	0	0	0	809.26	1327.67	30	29
1	AT&T Mobility	GALTRONICS	GP2414-06844	Panel	0	3700	B77D	60	0	58	2	11.05	40	10	4	0	0	0	509.40	835.72	30	29
2	AT&T Mobility	GALTRONICS	GP2414-06844	Panel	0	700	B12	180	0	73	2	6.25	80	20	4	0	0	0	337.36	553.46	30	29
2	AT&T Mobility	GALTRONICS	GP2414-06844	Panel	0	1900	B25	180	0	76	2	10.05	80	20	4	0	0	0	809.26	1327.67	30	29
2	AT&T Mobility	GALTRONICS	GP2414-06844	Panel	0	3700	B77D	180	0	58	2	11.05	40	10	4	0	0	0	509.40	835.72	30	29



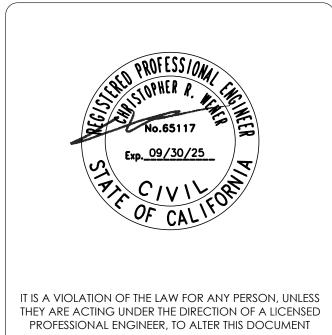
AT&T 5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

REV	DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
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EME REPORT

EME-2

Page 9



550 Bedford Road, Bedford Hills NY phone: (914) 241-4999 • fax: (914) 244-9375 email: consultinggroup@savatree.com

savatree.com/consulting

March 4, 2024

Justin Giarritta

Program Manager – Modus LLC (a NextEdge company)

Location: Near 1661 PAGE MILL RD, Palo Alto, CA Project Name: CRAN_RSFR_PALO2_054

I was retained by Modus LLC (a NextEdge company) to assess the condition of the protected trees located adjacent to the subject property. The inspections are to evaluate the presence of protected trees near the proposed work area for the installation of updated cell tower equipment. This will include documentation on the current condition of the trees and recommendations for additional treatments if necessary.

Any trees that have the potential to be impacted by the project will further be subject to tree preservation measures. No excavation or trenching is proposed at this time. A detailed tree preservation narrative is included in each report and is further expanded upon in the Tree Disclosure Form for the City of Palo Alto, attached to this report.

In February 2024, SavATree visited the site. We visually inspected the trees immediately adjacent to the utility pole containing the existing hardware, at GPS coordinates provided. Visual inspection took place from public property (sidewalk) around property. Trees were visually inspected a full 360 degrees where allowable for condition assessment.

Observations

The site contained 1 tree that was in close proximity to the project site. This tree has the potential to be impacted by project activity, primarily from equipment access, equipment/material storage, or employee access. Tree details are in Table 1 below.

Table 1 - Specific tree information.

Tree ID	Species	Botanical	DBH (inches)	Height	Condition
1	Holly leaf oak	Quercus ilex	15"	16'-30'	80% - Good



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Tree Condition Notes

Tree #1 – Semi-mature tree growing naturally. The tree is in a natural area behind 6' chain link fence. Limbs extend over fence close to project area, but not likely to be impacted by work. No additional protection required.

Our rating system is as follows:

Excellent (100%) – Tree is of exceptional health and vigor for species. There are no structural defects, or significant asymmetry in the canopy. There is no visible damage to the trunk or branches and pruning cuts have compartmentalized well. Foliage is of excellent appearance for species.

Good (80%) – The vigor is normal for the tree species with minor twig dieback. Defects are minor and easily corrected. The canopy may have minor asymmetry which could be due to pruning for clearance.

Fair (60%) – The vigor is normal or reduced. There is an accumulation of dead branches. Defects are present in the canopy that may or may not be correctable. There may be an active pest infestation. The canopy has been reduced or is asymmetrical.

Poor (40%) – The tree is in decline and likely will not recover. The foliage quality and color is poor. Dead or missing branches comprise over 50 percent of the tree canopy. There may be serious structural deficiencies in the tree.

Critical (20%) – The tree is functionally dead, with less than 25 percent of canopy left alive. The trees will not recover.

Dead – Little to no indication of life.

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savatree.com/consulting

phone: (914) 241-4999 • fax: (914) 244-9375

email: consultinggroup@savatree.com

SAVAYREE Consulting Group

550 Bedford Road, Bedford Hills NY phone: (914) 241-4999 • fax: (914) 244-9375 email: consultinggroup@savatree.com savatree.com/consulting

Recommendations

Construction activity is not expected to significantly impact the subject trees. No additional tree protection is required.

If additional space is needed, the project arborist shall be informed prior to additional pruning. All pruning shall be approved by the project arborist.

Please contact me if you have questions regarding my findings.

Thank you,

Klayton Soucy
Consulting Arborist
ISA TRAQ Certified Arborist: WE-14199A
member, American Society of Consulting Arborists

Trees | Shrubs | Lawn | Deer | Ticks | Consulting Trees | Shrubs | Lawn | Deer | Ticks | Consulting

SAVAYREE Consulting Group

Appendices
Appendix A: Project Overview



550 Bedford Road, Bedford Hills NY phone: (914) 241-4999 • fax: (914) 244-9375 email: consultinggroup@savatree.com savatree.com/consulting



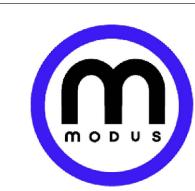
Figure 1 - Aerial view of site with corresponding tree numbers. Areas outlined in RED are areas of potential tree impacts.



Photo 1 — Photo taken during my site visit on an iPhone 12. Subject tree not likely to require additional pruning or protection.



AT&T 5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

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TREE PROTECTION PLAN

TP-1

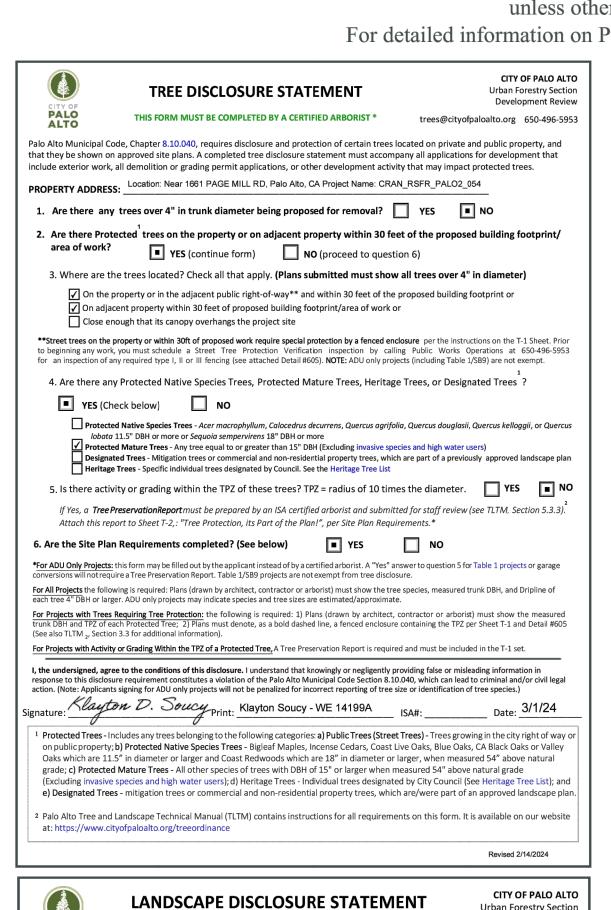
City of Palo Alto Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials, and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An approved tree preservation report must be added to this sheet when project activity occurs within the TPZ of a protected tree.

For detailed information on Palo Alto's protected trees and tree protection during development, review the City's Tree and Landscape Technical Manual (TLTM) found at www.cityofpaloalto.org/trees

URBAN FORESTRY STANDARD CONDITIONS



THIS FORM MUST BE COMPLETED FOR ALL PROJECTS INCLUDING LANDSCAPING

Palo Alto Municipal Codes, Chapters 12.32.040, 16.14, and 18.40.130 requires compliance with the State Model Water

document for further details

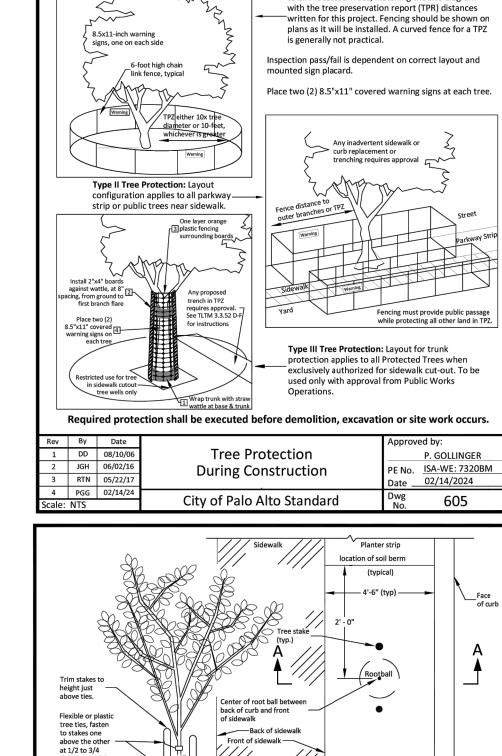
1 - '

Efficient Landscape Ordinance (MWELO). Disclosure of square footage of landscaped area for all projects will assist both

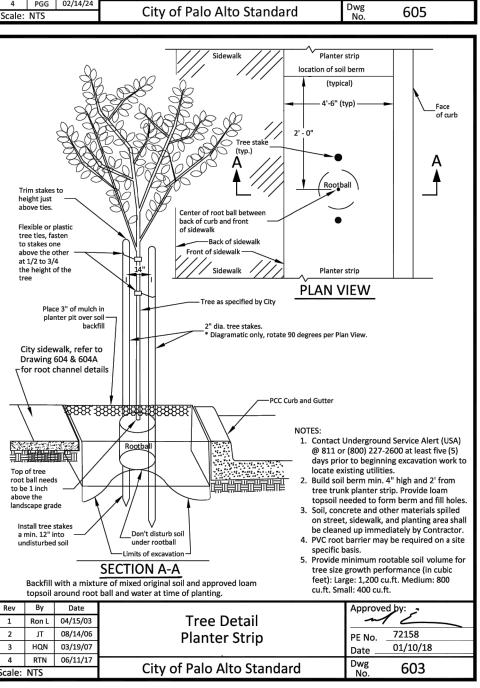
the applicant and the city with compliance and reporting requirements. Refer to the city's MWELO Submittal & Guideline:

YES (continue form) NO (form requirements complete)

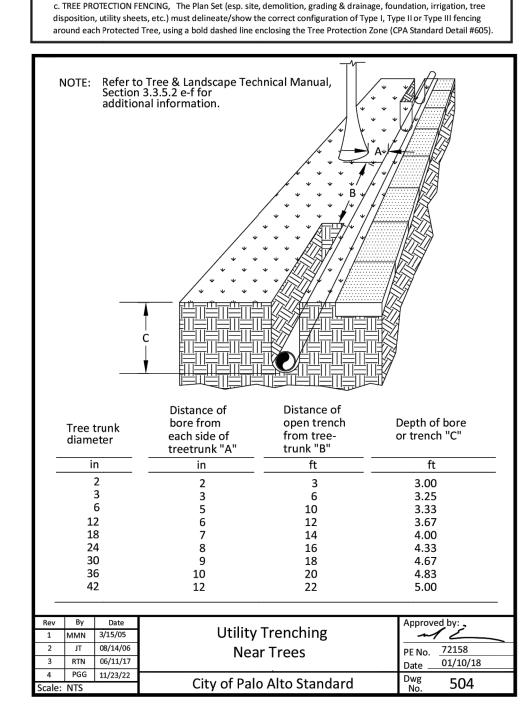
*If the square footage of new landscaping is greater than 500 square feet the project will need to submit MWELO documentatio



■ Restricted activity area - see Tree & Landscape Technical Manual Sec 3.3.52(A)



For written specifications associated with illustrations below, see Public Works Specifications Section 31. Detailed specifications are found in the Palo Alto Tree & Landscape Technical Manual (TTM) (www.cityofpaloalto.org/trees) he following conditions and/or standard Municipal Code requirements are provided for supplemental guidance. Tree Protection Zone (TPZ) shown in gray (radius of TPZ equals 10-times the diameter of the tree or 10-feet, commendation and/or best practices. Any applicable items shall be addressed in any permit application such as a uilding Permit, Excavation and Grading Permit, Certificate of Compliance, Street Work Permit, Encroachment Permit, etc REE PROTECTION COMPLIANCE: The owner and contractor shall implement all protection and inspection schedule form work within TPZ of a protected tree requires approval from Public Works Operations, Call 650-496-5953. easures, design recommendations and construction scheduling as stated in the Tree Preservation Report and/or Sheet Tnd is subject to code compliance action pursuant to PAMC 8.10.080. The required protective fencing shall remain in place Type I Tree Protection: Layout configuration applie ntil final landscaping and inspection of the project. to all Protected Trees, matching the site diagram PLAN CHANGES: Revisions and/or changes to plans before or during construction shall be reviewed and responded to by the (a) project site arborist, or (b) landscape architect with written letter of acceptance before submitting the evision to the Development Services Department for review by Planning, Public Works or Urban Forestry, REE DAMAGE: Tree Damage, Injury Mitigation and Inspections apply to the Contractor. Reporting, injury mitigation neasures and arborist inspection schedule apply pursuant to TLTM, Section 5.3. Contractor shall be responsible for the epair or replacement of any publicly owned or protected trees that are damaged during the course of construction, ursuant to Title 8 of the Palo Alto Municipal Code, and city Tree and Landscape Technical Manual, Section 3.3.5 - 4. JRBAN FORESTRY GENERAL: The following general tree preservation measures apply to all trees to be retained: No storage of material, topsoil, vehicles or equipment shall be permitted within the tree protection zone (TPZ). The ground under and round the tree canopy area shall not be altered. No waste material or construction byproducts allowed within the TPZ. rees to be retained shall be irrigated, aerated and maintained as necessary to ensure survival. XCAVATION RESTRICTIONS APPLY - TLTM, Sec. 3.3.5 - 2e: Any approved grading, digging or trenching beneath a tree anopy shall be performed using 'air-spade' method as a preference, with manual hand shovel as a backup. For utility enching, including sewer line, roots exposed with diameter of 1.5 inches and greater shall remain intact and not be lamaged. If directional boring method is used to tunnel beneath roots, then CPA Standard Detail #504 shall be printed on the final plans to be implemented by Contractor. Any excavation within 10-feet of street trees must be approved in advance by the Urban Forestry Section at (650) 496-5953. NO NET LOSS OF CANOPY: In order to comply with the city's no net loss of canopy policy (PAMC 8.10.055; Urban Forest Master Plan Goals 6.A, 6.B, & 6.C; Comprehensive Plan, Natural Environment Chapter Goal N-2) all trees 4" DBH and larger e subject to replacement to avoid a loss of canopy at the neighborhood level. Replacement ratios are determined by table -2 in the Tree and Landscape Technical Manual, Section 4.3. New landscape tree plantings (24" box or larger) count owards the replacement total. Screening trees may also count toward the total depending on size and species selected. If inable to plant the required number of trees on site (our preferred solution) there is the option of paying in-lieu fees per ach 24" box tree into the forestry fund. [Note: Replacement at 1:1 ratio for trees listed as exempt species under PAMC 3.10.020 is recommended but not required.] PLAN SET REQUIREMENTS: The final Plans submitted for a building permit shall include the location, DBH, and drip-line of all trees 4" DBH or greater as well as the following information and notes on relevant plan sheets: a. SHEET T-1, The building permit plan set will include the City's full-sized, Sheet T-1 (Tree Protection-it's Part of the Plan!), available on the Development Center website. A certified arborist shall complete and sign the Tree Disclosure Statement. b. TREE PRESERVATION REPORT (TPR), if indicated by Tree Disclosure Statement, All sheets of the Applicant's TPR approved by the City for full implementation by Contractor, shall be printed on numbered Sheet T-1 (T-2, T-3, etc.) and added to the sheet index.



PROJECT SPECIFIC REQUIREMENTS TO BE FILLED OUT BY APPLICANT AT DIRECTION OF UF STAFF

The following conditions, inspection schedules or reporting requirements will be required when checked by city staff during Urban Forestry Review of development applications.

PSR1 - TREE PROTECTION VERIFICATION INSPECTION REQUIRED: Prior to any site work, contractor must call Uriel Hernandez at 650-690-0258 to schedule an inspection of any required protective fencing. The fencing shall contain required warning sign and remain in place until completion of urban forestry final inspection.

PSR2 - MWELO INSPECTION REQUIRED: Prior to building final, applicant must contact Urban Forestry at trees@cityofpaloalto.org for landscape final (MWELO Inspection). Call once irrigation and landscaping are installed to plan, and irrigation controller is scheduled. See MWELO guidelines for details on any required third party water audits.

PSR3 - TREE PERMIT REQUIRED: Plans indicate that protected trees will be removed as part of this project. Please contact Urban Forestry at trees@cityofpaloalto.org to obtain a Protected Tree Removal Permit to ensure that the project complies with PAMC 8.10.050.

PSR4 - **PROJECT ARBORIST**: The property owner shall hire a certified arborist to ensure the project conforms to all Planning and Urban Forestry conditions related to landscaping/trees.

PSR5 - PROJECT ARBORIST CERTIFICATION LETTER: When required, a letter certifying that the project arborist has reviewed the building permit plan set with regards to trees as well as the Urban Forestry Conditions of Approval, and that all requirements have been met. The letter also confirms that any required site monitoring inspections and reporting have been arranged with the contractor or owner Project Arborist Certification Letters should be included as supporting documents when submitting an application for a building permit that required prior approval through Planning (See Project Arborist Certification Letter, TLTM Section 5.3.5).

PSR6 - MONTHLY ARBORIST INSPECTIONS: The project arborist shall perform monthly inspections to monitor changing conditions and tree health. The Urban Forester shall be in receipt of an inspection summary during the first week of each calendar month or, immediately if there are any changes to the approved plans or protection measures (see Monthly Inspection Report, TLTM Section 5.3.6).

PSR7 - SPECIAL ACTIVITY WITHIN THE TREE PROTECTION ZONE: Work in this area (TPZ) of a protected tree requires the direct on-site supervision by the project arborist (see Trenching, Excavation and Equipment, TLTM Section 3.3.5-2e).

PSR8 - SPECIAL ACTIVITY WITHIN STREET TREE TPZ: Work in the Tree Protection Zone of a city tree equires an inspection by a city staff arborist before cutting of any roots greater than 2 inches in diameter. It is highly recommended that the project arborist provides the direct on-site supervision (see Trenching, Excavation and Equipment, TLTM Section 3.3.5-2e).

---WARNING---**Tree Protection Zone**

This fencing shall not be removed without City Arborist approval (650-496-5953)

Removal without permission is subject to a \$500 fine per day*

*Palo Alto Municipal Code Section 8.10.110

Apply Tree Preservation Report on sheet(s) T-2 when required

Use additional "T" sheets as needed

ata

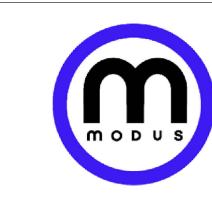
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ALTO

T- 1



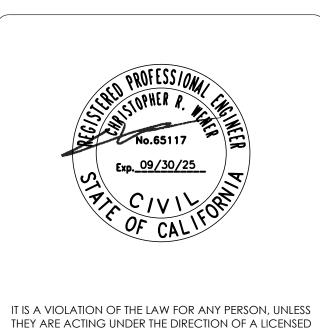
5005 EXECUTIVE PARKWAY SAN RAMON, CA 94583



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

DRAWN BY:	JLV
CHECKED BY:	TDL
APPROVED BY:	CW

REV	DATE	DESCRIPTION
	08/16/24	90% CD
0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
2	08/28/25	100% CD PLAN CHECK



PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD PALO ALTO, CA 94305

TREE PROTECTION PLAN

TP-2

PALO

ALTO

1. Is there any new or rehabilitated landscape area included in this project?

2. If new landscape is included, enter the square footage: New Landscape square footage*

3. If rehabilitated landscape is included, enter the square footage: Rehabilitated Landscape* =

4. Enter the total combined square footage of all landscaping included in the project*=

*If the square footage of rehabilitated landscaping is greater than 2500 square feet the project will need to submit

*If the total square footage of all landscaping is greater than 2500 square feet the project will need to submit

I, the undersigned, agree that the above information is accurate and complete. I understand that knowingly or negligently providing false or misleadin

All other tree-related reports shall be added to the space provided on this sheet, adding sheets as needed. Include this sheet(s) on Project Sheet Index or Legend Page.

A copy of the T-1 Sheet can be downloaded at http://www.cityofpaloalto.org/trees

Urban Forestry Sectio

Revised 09/26/202

* Please note: Until the new TLTM is published the city's updated Tree Protection Ordinance takes precedence over TTM if conflict exists.

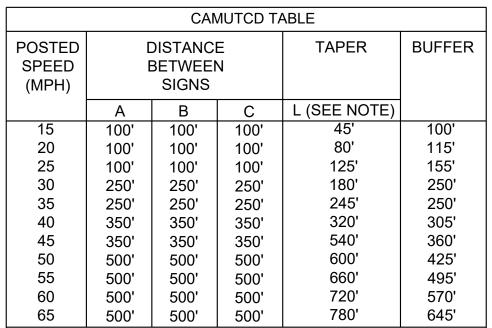
Special Tree Protection Instruction Sheet City of Palo Alto

PEDESTRIANS SHALL BE ESCORTED THROUGH OR AROUND THE WORK AREA THROUGHOUT THE COURSE OF WORK.

NOTE: PROVIDE OPENINGS

35'MAX 250'

HROUGH OR AROUND THE WORK



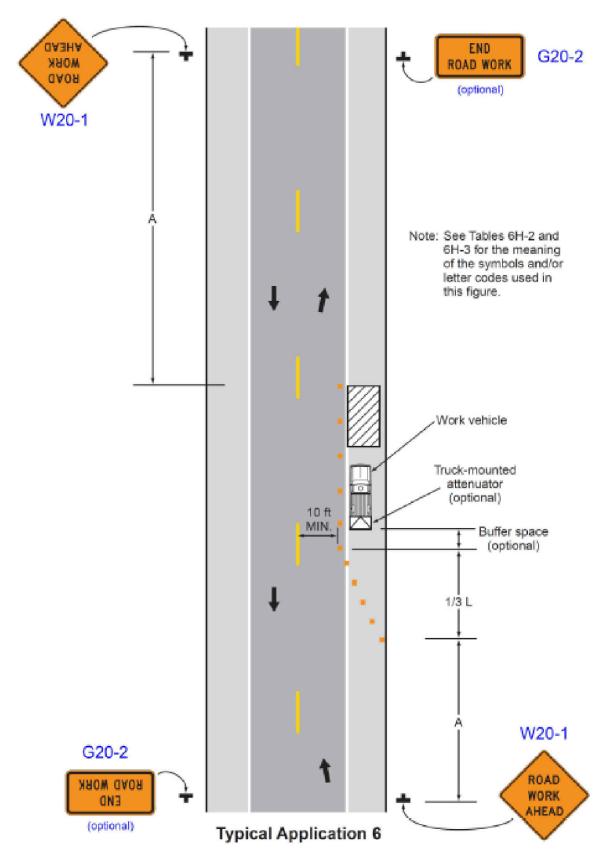
NOTES:

- A. DISTANCE IN FEET UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY EXISTING SPEED LIMIT. DISTANCE SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR
- DISTANCES. ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION.
- TAPER LENGTHS SHOWN ON 12' LANE WIDTH.

TRAFFIC CONTROL TABLE

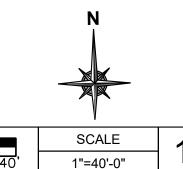
SPEED LIMIT = 35 MPH

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



TA-6 FOR REFERENCE ONLY

24"×36" SCALE: 1" = 40'-0" $11"\times17"$ SCALE: 1" = 80'-0"



TRAFFIC CONTROL PLAN

TRAFFIC CONTROL NOTES

- 1. ALL DELINEATORS SHALL BE EQUIPPED WITH REFLECTORS AT NIGHT TIME.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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
- 7. ALL TRAFFIC LANES SHALL HAVE A MINIMUM OF 5 FEET CLEARANCE FROM OPEN EXCAVATIONS AND MINIMUM OF 2 FEET FROM VERTICAL OBSTRUCTIONS.
- 8. THE CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE ENGINEER, COUNTY INSPECTOR, OR CALTRANS PERMIT INSPECTOR.
- 9. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH FLAGS.
- 10. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AT ALL TIMES DURING ANY WORK ON SITE.
- 11. 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.
- 12. 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.
- 13. THE CONTRACTOR SHALL REPLACE AND/OR REPAIR ALL DAMAGED STRIPING AT THE END OF EACH WORKING DAY.
- 14. 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 CAMUTCD STANDARDS AND MUST OBTAIN APPROVAL FROM THE CITY OR COUNTY OF
- 15. THE CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.
- 16. THE CONTRACTOR SHALL POST "SYMBOLS" UNEVEN LANES, "STEEL PLATES AHEAD" OR "BUMP" SIGNS FOR PAVEMENT SURFACE DISRUPTIONS OF $\frac{1}{2}$ " OR GREATER. PAVEMENT DISRUPTIONS FOR 1" OR GREATER SHALL HAVE A BEVELED EDGE OF FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
- 17. BEFORE PLATE BRIDGING, THE CONTRACTOR SHALL INSTALL "CAUTION STEEL PLATES ADHEAD" AND/OR "ROUGH ROAD SIGNS.
- 18. 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 (10' MAX SPACING) TRAFFIC SIGN LANE DIRECTION

FLAGGER



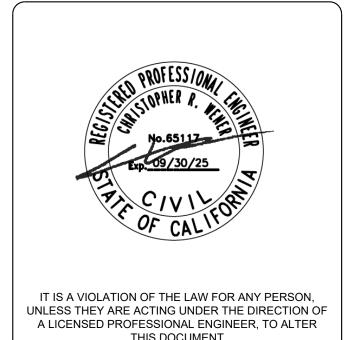
AT&T 5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583



A NextEdge Company MODUS, LLC 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108

DRAWN BY:	RM
CHECKED BY:	RM
APPROVED BY:	CW

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0	01/16/24	100% CD



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TRAFFIC CONTROL PLAN

TCP-1