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
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AT&T MOBILITY RF MANAGER:
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583
CONTACT: JERIC LIZARDO
EMAIL: ljl8771@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
EMAIL: TLAWRENCE@MODUSLLC.COM

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

SCOPE:

- 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 POWER CONDUIT FROM P.O.C. TO EQUIPMENT
- INSTALL (1) NEW FIBER CONDUIT FROM P.O.C. TO EQUIPMENT
- REMOVE (E) FOUNDATION ADJACENT TO POLE.
- EXISTING LIGHT POLE AND FOUNDATION TO REMAIN
- REMOVE EXISTING EQUIPMENT CABINET
- 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)

DRAWING INDEX

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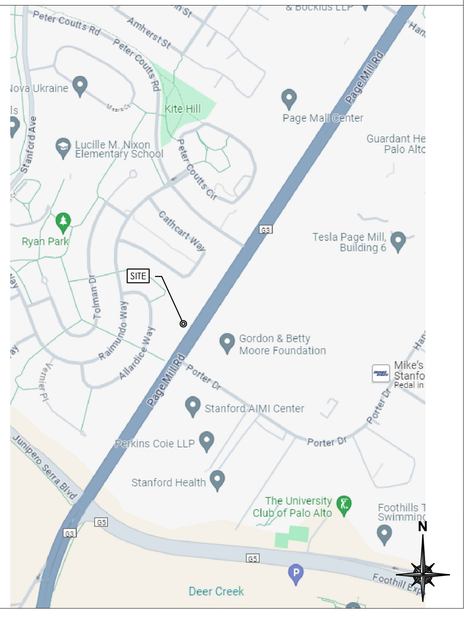
POLE PHOTO

VICINITY MAP



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
APPLICANT:	AT&T MOBILITY 5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583
LATITUDE:	37.410145° N
LONGITUDE:	122.152965°W
COUNTY:	SANTA CLARA
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

811 Know what's below. Call before you dig.

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.

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 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 11038.

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

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
3	09/30/25	100% CD PLAN CHECK
4	10/09/25	100% CD PLAN CHECK

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WAKEY
No.65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

TITLE SHEET

T-1

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 / ENGINEER.
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.

TESTS

1. 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.

PERMITS

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.

DEFINITIONS

1. "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 PLANE.
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 DIRECTION.
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 PRODUCT.
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
   - 3.2. - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
   - 3.3. - 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
   - 4.2. 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, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

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

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.
3. 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

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

LEGEND

- SPOT ELEVATION
- REVISION
- DETAIL REFERENCE (X / X-X)
- SECTION REFERENCE (X / X-X)
- ELEVATION REFERENCE (X / X-X)
- STEEL
- GROUT
- CONCRETE
- EARTH
- GRAVEL
- SAND
- CENTERLINE
- RIGHT-OF-WAY
- G — GROUND
- T — TELCO
- E — ELECTRICAL
- E/T — ELECTRICAL/TELCO
- A — COAX
- FO — FIBER
- O/H — OVERHEAD
- OH P/T — OVERHEAD POWER/TELCO
- OHT — OVERHEAD TELCO
- OHP — OVERHEAD POWER
- X — CHAIN LINK FENCE
- FENCING

at&t

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA
94583

MODUS

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
3	09/30/25	100% CD PLAN CHECK
4	10/09/25	100% CD PLAN CHECK

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WALKER
No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

GENERAL NOTES

T-2

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.






MATERIALS & WASTE MANAGEMENT

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, and antifreeze) in accordance with city, county, state and 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 & 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, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ☐ 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 until repairs are made.
- ☐ 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).**

EARTHMOVING

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 Control Board:
  - 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 not disturbed by construction activities.

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

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 fl ow 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.

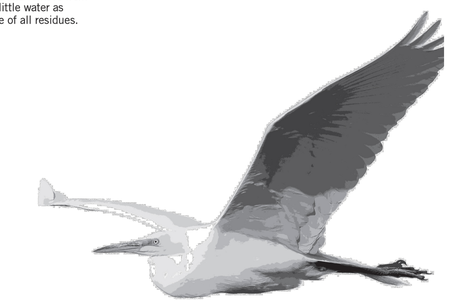
PAVING/ASPHALT WORK

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 gutters.

Sawcutting & Asphalt/Concrete Removal

- ☐ Protect storm drain inlets during saw cutting.
- ☐ If saw cut slurry enters a catch basin, clean it up immediately.
- ☐ 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 non-hazardous 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

CITY OF PALO ALTO

at&t

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5005 EXECUTIVE PARKWAY
SAN RAMON, CA
94583

MODUS

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POLLUTION PREVENTION

T-3

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.




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 public-right-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 right-of-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.

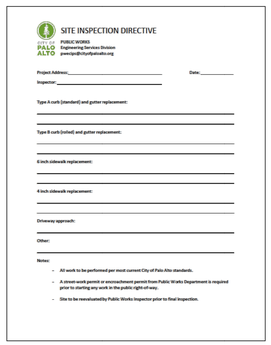
Additionally, curb cuts and driveway approaches for abandoned driveways must be replaced with new curb, gutter and planter strip.

As needed

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

Project Address:_____ Date:_____
Inspector:_____

Type A curb [standard] and gutter replacement:

Type B curb [rolled] and gutter replacement:

6 inch sidewalk replacement:

4 inch sidewalk replacement:

Driveway approach:

Other:

Notes:
- 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 right-of-way. This includes job site trailers, dumpsters, storage containers and portable restrooms

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

Contractor shall contact Public 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)496-6929.

Excavation activities associated 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.

QUESTIONS?

650.329.2496, Option 8

pwecips@cityofpaloalto.org

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

CITY OF PALO ALTO

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA
94583

MODUS, LLC
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SAN FRANCISCO, CA
94108

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

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No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

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1661 PAGE MILL RD
PALO ALTO, CA 94305

PUBLIC WORKS CONDITIONS

T-4

CRAN_RSFR_PALO2_054
1661 PAGE MILL ROAD
PALO ALTO, CA 94304
VIEW FROM PAGE MILL ROAD. LOOKING NORTHWEST AT SITE

EXISTING

PROPOSED

CRAN_RSFR_PALO2_054
1661 PAGE MILL ROAD
PALO ALTO, CA 94304
VIEW FROM PAGE MILL ROAD. LOOKING NORTHEAST AT SITE

EXISTING

PROPOSED

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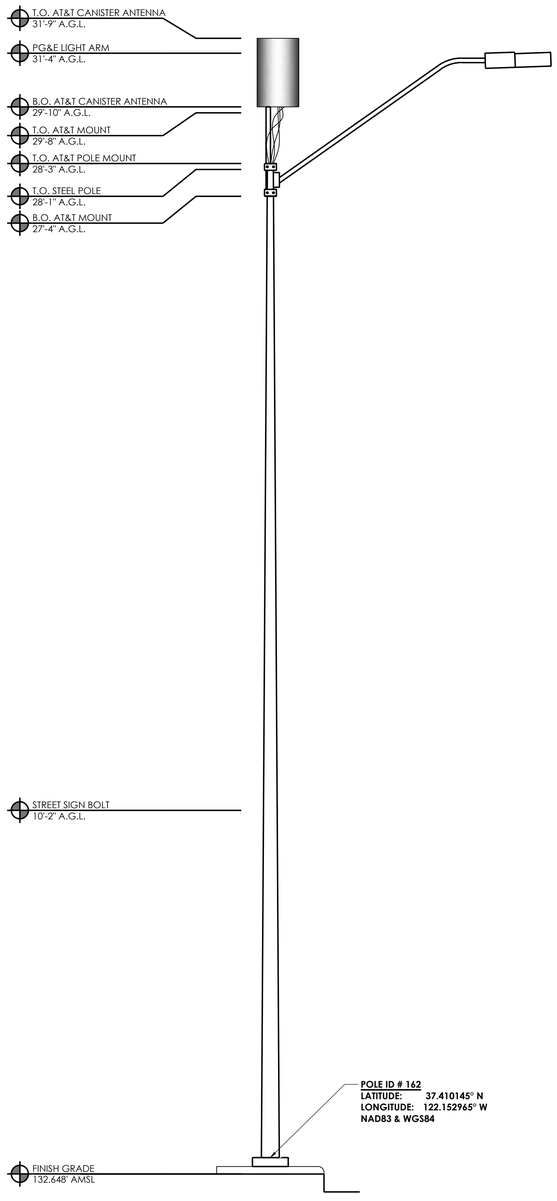
PHOTO SIMULATIONS

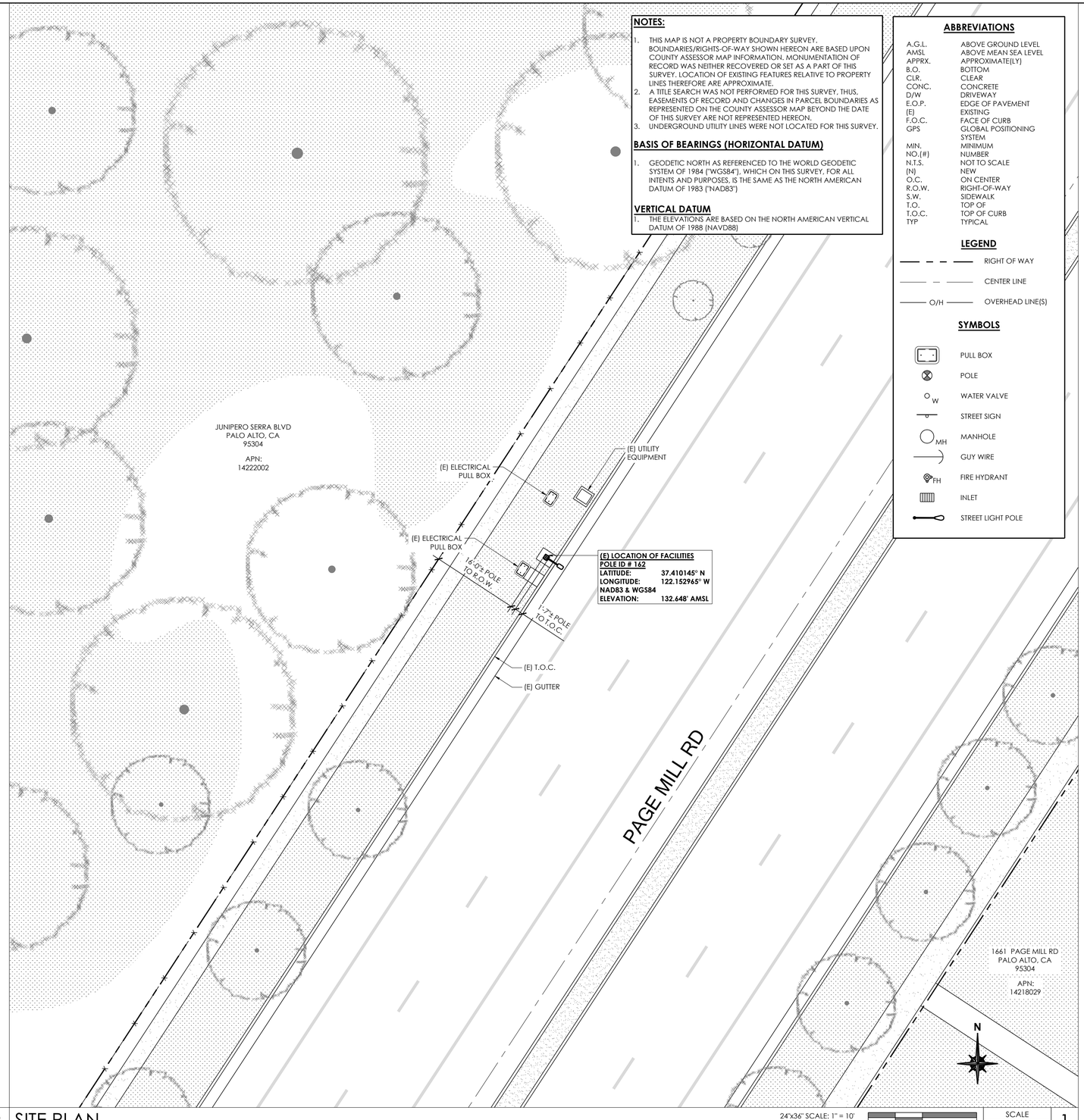
T-5



ELEVATION

SCALE 1/2"=1'-0"

2



SITE PLAN

24"x36" SCALE: 1" = 10'
11"x17" SCALE: 1" = 20'
10' 5' 0' 10'

SCALE 1"=10'-0"

1

NOTES:

1. THIS MAP IS NOT A PROPERTY BOUNDARY SURVEY. BOUNDARIES/RIGHTS-OF-WAY SHOWN HEREON ARE BASED UPON COUNTY ASSESSOR MAP INFORMATION. MONUMENTATION OF RECORD WAS NEITHER RECOVERED OR SET AS A PART OF THIS SURVEY. LOCATION OF EXISTING FEATURES RELATIVE TO PROPERTY LINES THEREFORE ARE APPROXIMATE.
2. A TITLE SEARCH WAS NOT PERFORMED FOR THIS SURVEY, THUS, EASEMENTS OF RECORD AND CHANGES IN PARCEL BOUNDARIES AS REPRESENTED ON THE COUNTY ASSESSOR MAP BEYOND THE DATE OF THIS SURVEY ARE NOT REPRESENTED HEREON.
3. UNDERGROUND UTILITY LINES WERE NOT LOCATED FOR THIS SURVEY.

BASIS OF BEARINGS (HORIZONTAL DATUM)

1. GEODETIC NORTH AS REFERENCED TO THE WORLD GEODETIC SYSTEM OF 1984 ("WGS84"), WHICH ON THIS SURVEY, FOR ALL INTENTS AND PURPOSES, IS THE SAME AS THE NORTH AMERICAN DATUM OF 1983 ("NAD83")

VERTICAL DATUM

1. THE ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

ABBREVIATIONS

A.G.L.	ABOVE GROUND LEVEL
AMSL	ABOVE MEAN SEA LEVEL
APPRX.	APPROXIMATE(LY)
B.O.	BOTTOM
CLR.	CLEAR
CONC.	CONCRETE
D/W	DRIVEWAY
E.O.P.	EDGE OF PAVEMENT
(E)	EXISTING
F.O.C.	FACE OF CURB
GPS	GLOBAL POSITIONING SYSTEM
MIN.	MINIMUM
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
(N)	NEW
O.C.	ON CENTER
R.O.W.	RIGHT-OF-WAY
S.W.	SIDEWALK
T.O.	TOP OF
T.O.C.	TOP OF CURB
TYP	TYPICAL

LEGEND

- RIGHT OF WAY
- CENTER LINE
- O/H — OVERHEAD LINE(S)

SYMBOLS

- PULL BOX
- POLE
- W — WATER VALVE
- STREET SIGN
- MH — MANHOLE
- GUY WIRE
- FH — FIRE HYDRANT
- INLET
- STREET LIGHT POLE

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94108

DRAWN BY:	FZA
CHECKED BY:	SH
APPROVED BY:	MPW

REV	DATE	DESCRIPTION
	08/22/23	100% SURVEY

LICENSED LAND SURVEYOR
MICHAEL PAUL WOOD
Exp. 09/30/23
NO. 9233
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

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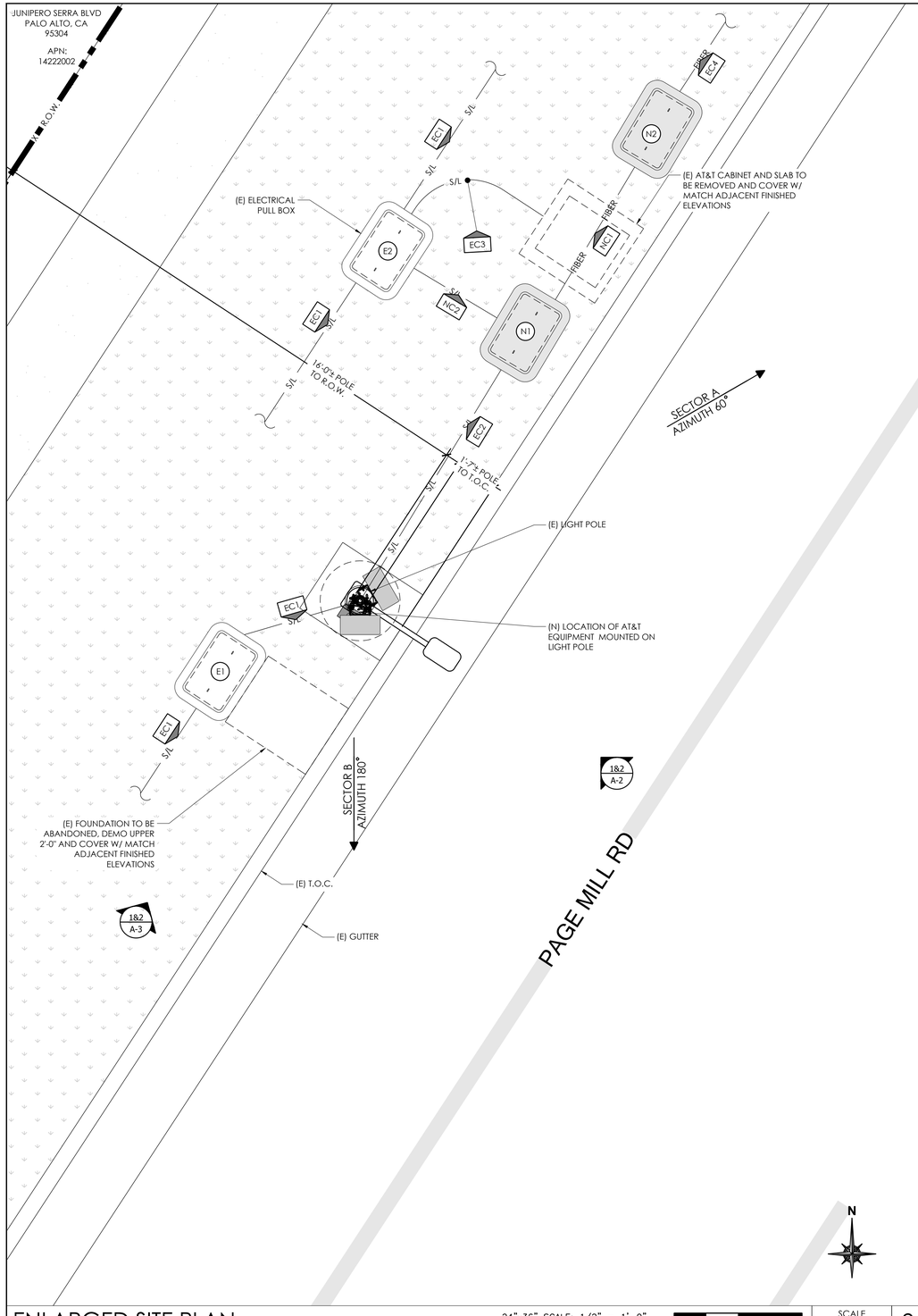
PALO ALTO, CA 95304

SURVEY

C-1



ENLARGED SITE PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

2' 1' 0" 2'

SCALE 1/2"=1'-0"

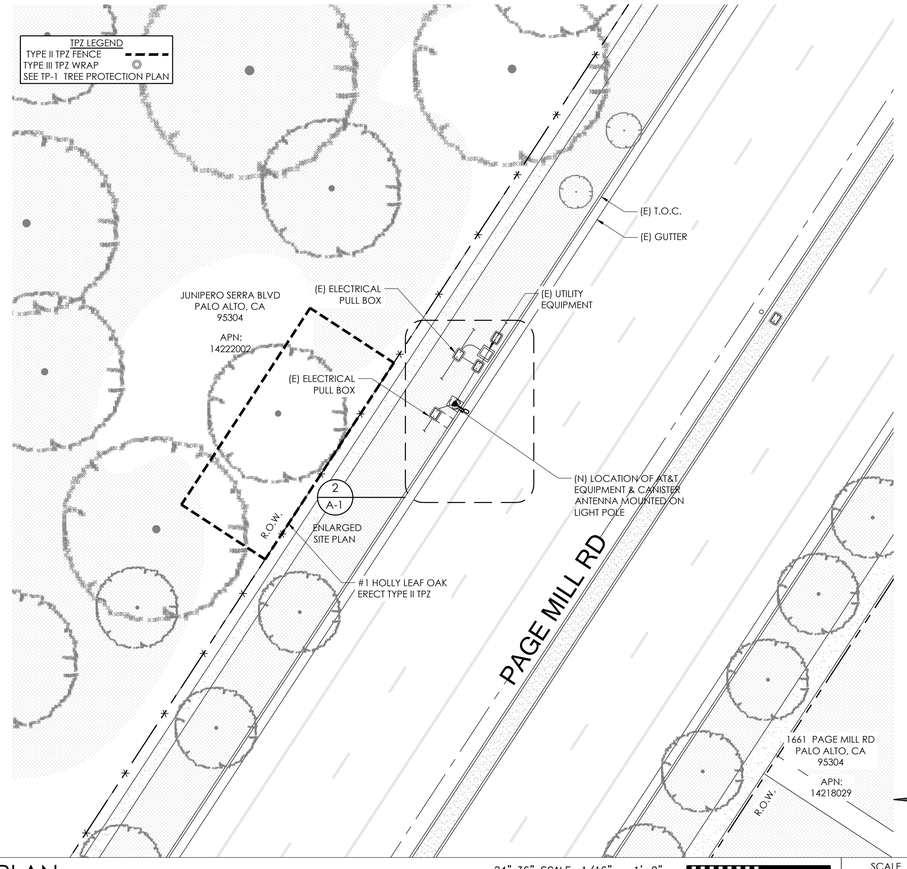
2

CONDUIT TABLE			
DESIGNATION	**CONDUIT**	**EXISTING CONTENTS**	**NEW CONTENTS**
EC1	EXISTING 1 1/2" DIA. PVC	(3) #8 STREET LIGHT CONDUCTORS & (1) #8 BARE EQUIPMENT GROUND	(3) #8 STREET LIGHT CONDUCTORS & (1) #8 BARE EQUIPMENT GROUND
EC2	EXSTING 2" DIA. PVC	1 1/2" 2 CELL MAXCELL WITH ONE CELL CONTAINING NEW (2) FO JUMPERS, (3) #10 THW POWER & (1) #8 GROUND. OTHER CELL TO REMAIN EMPTY, RESERVED FOR FUTURE USE.	1 1/2" 2 CELL MAXCELL WITH ONE CELL CONTAINING NEW (2) FO JUMPERS, (3) #10 THW POWER & (1) #8 GROUND. OTHER CELL TO REMAIN EMPTY, RESERVED FOR FUTURE USE.
EC3	EXISTING 1 1/2" DIA. PVC	(2) #8 STREET LIGHT CONDUCTORS & (1) #8 BARE EQUIPMENT GROUND	CONDUITS AND CONDUCTORS TO BE REMOVED
EC4	EXSTING 2" DIA. PVC	FIBER CABLES	FIBER CABLES
NC1	NEW 2" PDIA. PVC	FIBER CABLES	FIBER CABLES
NC2	NEW 2" PDIA. PVC	N/A	(3) #8 STREET LIGHT CONDUCTORS & (1) #8 BARE EQUIPMENT GROUND

PULL BOX TABLE	
DESIGNATION	**DESCRIPTION**
E1	EXISTING CPAU STREET LIGHT PULL BOX
E2	EXISTING CPAU STREET LIGHT PULL BOX
N1	NEW STREET LIGHT BOX TO OVERSET EXISTING UNDERGROUND STREET LIGHT CONDUIT
N2	NEW FIBER BOX TO OVERSET EXISTING UNDERGROUND FIBER CONDUIT

LEGEND

- FIBER — FIBER
- E — ELECTRICAL
- S/L — STREET LIGHT



SITE PLAN

24"x36" SCALE: 1/16" = 1'-0"
11"x17" SCALE: 1/32" = 1'-0"

16' 12' 8' 4' 0" 16'

SCALE 1/16"=1'-0"

1

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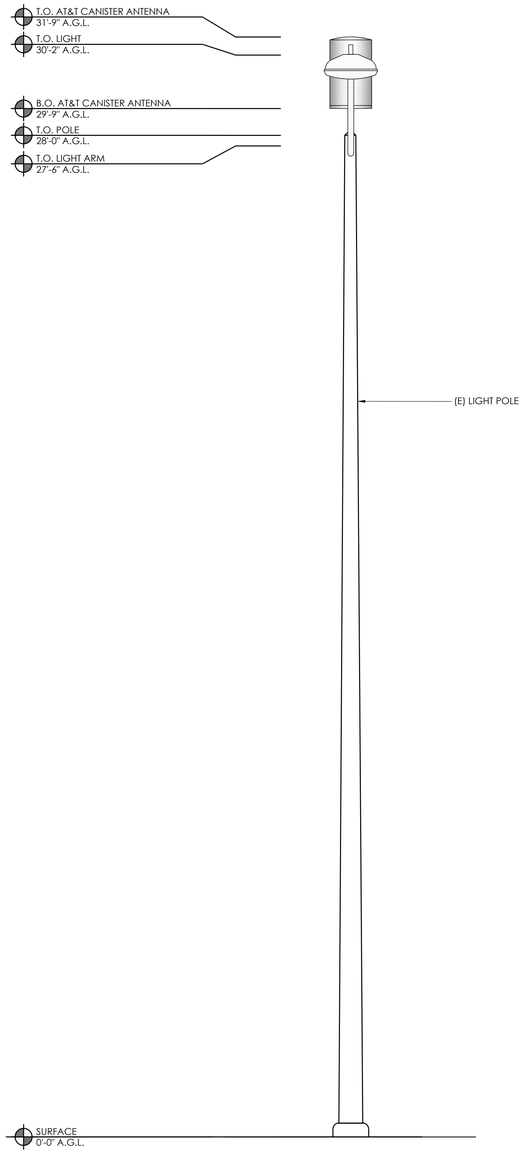
SITE PLAN

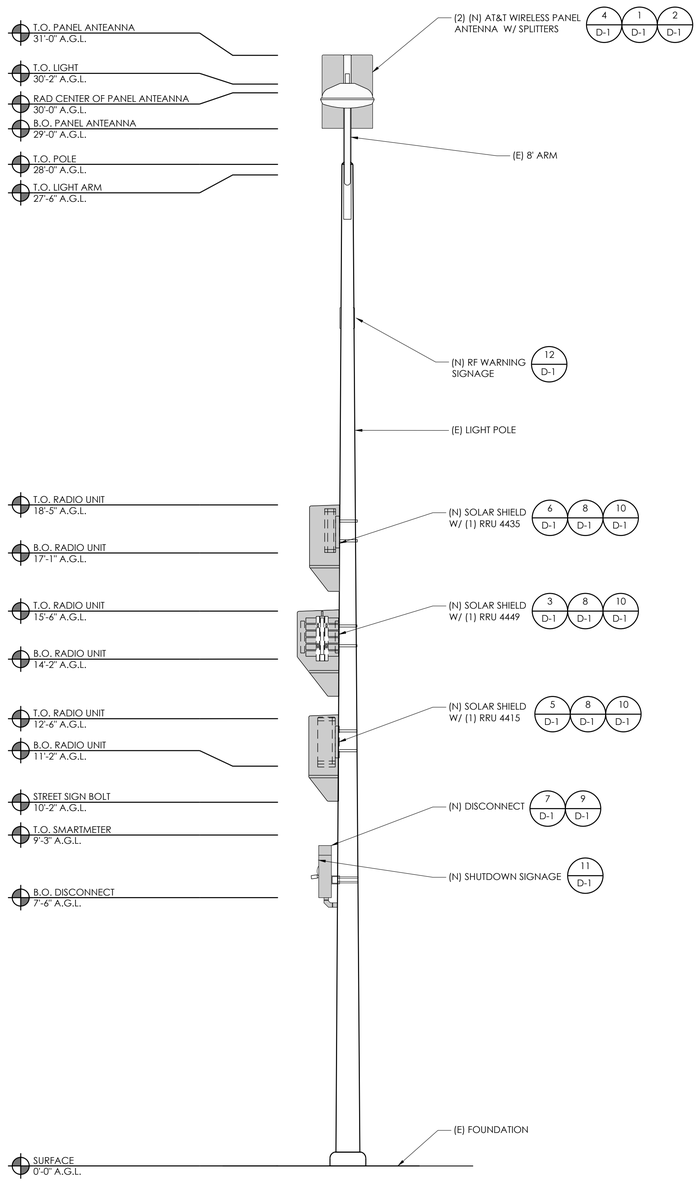
A-1

NOTES:
1. ALL NEW ANTENNAS, BRACKETS, AND OTHER EQUIPMENT WILL BE PAINTED TO MATCH LIGHT POLE.
2. ALL EXISTING SIGNAGE TO BE RELOCATED SHALL BE FASTENED USING STEEL BANDING PER SHEET T-2.
3. INSPECT EXISTING POLE FOR DENTS AND REPLACE POLE AS DIRECTED BY THE CITY
4. REPAINT NEW STREET LIGHT POLE PER CITY SPEC
5. INSTALL NEW POLE NUMBERS AFTER POLE PAINTING



EXISTING ELEVATION | SCALE 1/2"=1'-0" | 2

EQUIPMENT TO BE REMOVED VOLUME		NEW EQUIPMENT VOLUME	
ANTENNA	0.7025 CUFT	ANTENNAS	3.09 CUFT
GROUND CABINET	22.135 CUFT	SHROUD	8.65 CUFT
TOTAL	22.8375 CUFT	DISCONNECT	4.65 CUFT
TOTAL AFTER REMOVAL	0.0 CUCFT	TOTAL	16.39 CUFT



PROPOSED ELEVATION | SCALE 1/2"=1'-0" | 1

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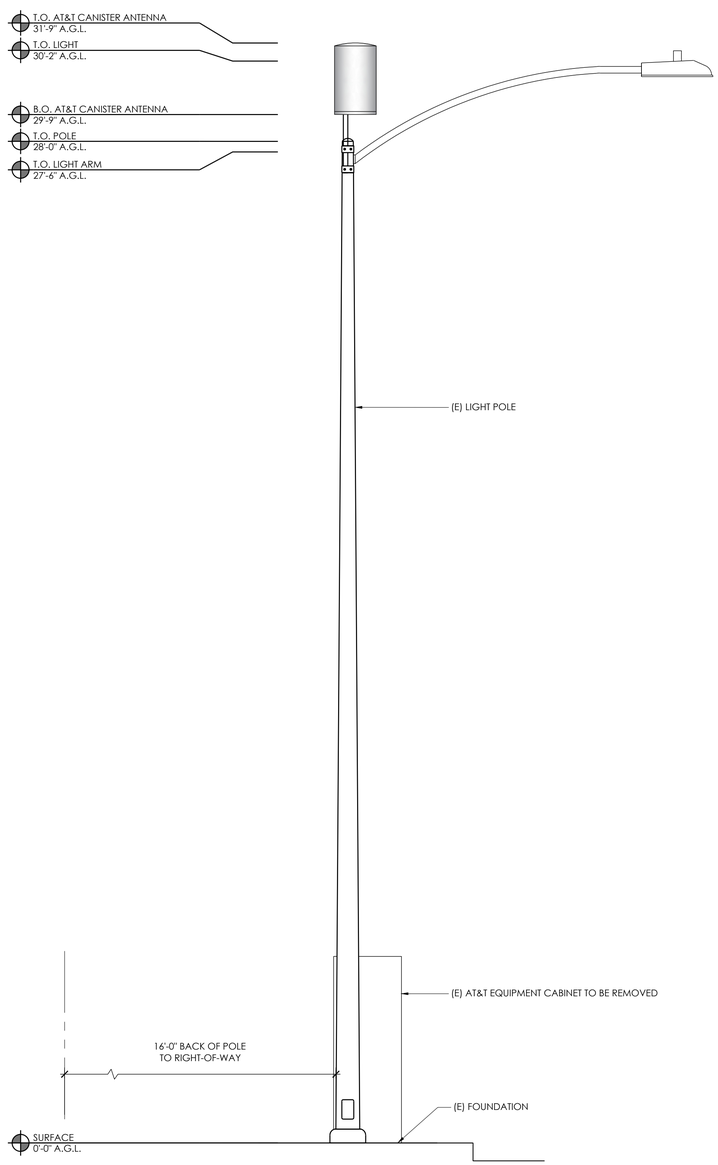
EXISTING & PROPOSED ELEVATIONS

A-2

EQUIPMENT TO BE REMOVED VOLUME	
ANTENNA	0.7025 CUFT
GROUND CABINET	22.135 CUFT
TOTAL	22.8375 CUFT
TOTAL AFTER REMOVAL	0.0 CUCFT

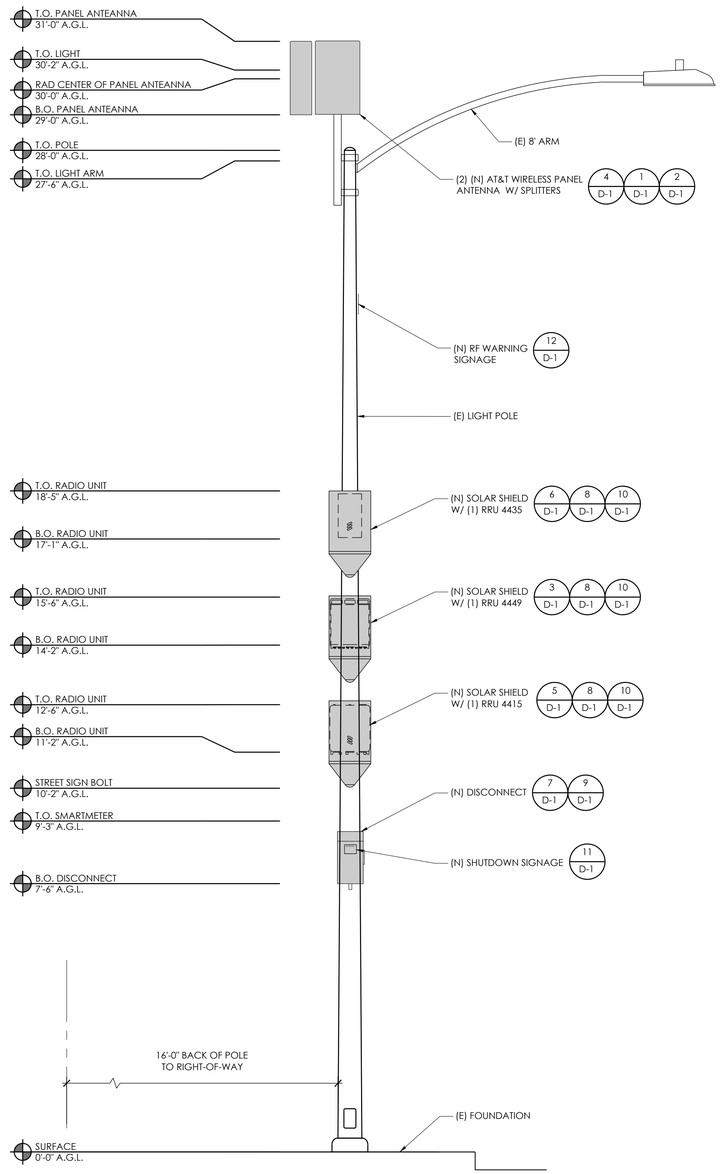
NEW EQUIPMENT VOLUME	
ANTENNAS	3.09 CUFT
SHROUD	8.65 CUFT
DISCONNECT	4.65 CUFT
TOTAL	16.39 CUFT



EXISTING ELEVATION

SCALE 1/2"=1'-0"

2



PROPOSED ELEVATION

SCALE 1/2"=1'-0"

1

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

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
3	09/30/25	100% CD PLAN CHECK
4	10/09/25	100% CD PLAN CHECK

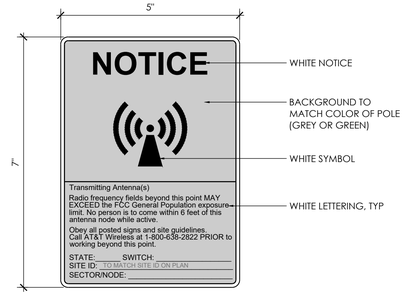
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WALKER
No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

EXISTING & PROPOSED ELEVATIONS

A-3

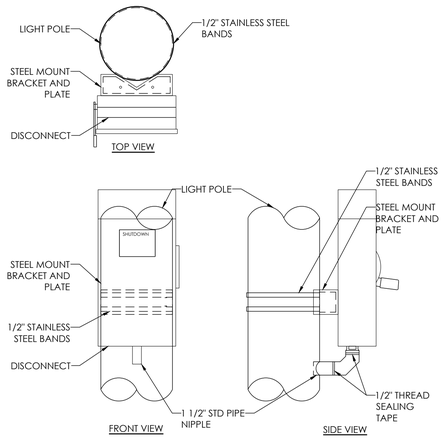


NOTES:

1. OUTDOOR RATED SELF ADHESIVE VINYL DECAL WITH UV PROTECTION.
2. POST SIGN 3'-0" BELOW PROPOSED ANTENNA.
3. CONTRACTOR TO CONFIRM SPECIFIC SIGN REQUIREMENTS WITH AT&T WIRELESS. THE CITY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION AND AUTHORITIES HAVING JURISDICTION PRIOR TO FABRICATION.
4. DECAL SHALL FACE OUT THE STREET AND WHEN FEASIBLE AWAY FROM THE STREET, IF NO BUILDING WINDOW IS PRESENT WITHIN 25 FEET FACING THE EXISTING POLE.

NOTICE SIGNAGE

SCALE	
NTS	12



DISCONNECT MOUNT

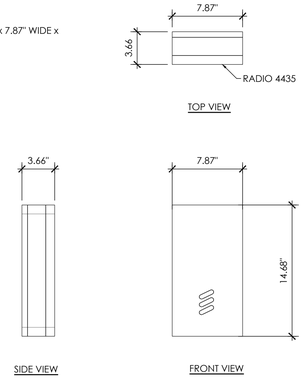
SCALE	
NTS	9

ERICSSON RADIO 4435
(OR APPROVED EQUIVALENT)

COLOR GRAY

DIMENSIONS: 14.68" TALL x 7.87" WIDE x 3.66DEEP

WEIGHT: 14.33 lbs

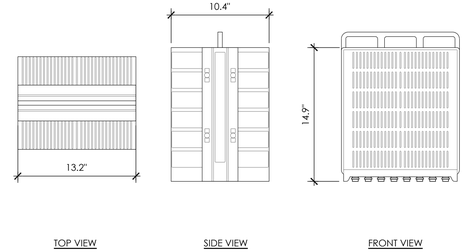


RRUS 4435

SCALE	
NTS	6

ERICSSON RRUS 4449 REMOTE RADIO UNIT

COLOR: GRAY
DIMENSIONS: 14.9" TALL X 13.2" WIDE X 10.4"
TOTAL WEIGHT: 74 LBS.



RRUS 4449

SCALE	
NTS	3

AT&T
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94583

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94108

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SHUTDOWN DISCONNECT

Normal Shut-Down Protocols:

1. Call AT&T NOC 800-638-2822 24HRS prior to schedule a power shut-off provide the following information:
   - 1.1. Site number identified no site numbering sticker
   - 1.2. Your name and reason for power shut-off
   - 1.3. Provide duration of outage
2. Pull disconnect hand to "OFF" position
3. Power shut-off verification with approved PG&E standards
4. Notify AT&T NOC upon completion of work
5. Restore power by placing power disconnect handle in the "ON" position
6. Reinstall lock on power handle

Emergency Shut-Down Protocols:

1. Call AT&T NOC 800-638-2822 prior to power shut off and provide the following information:
   - 1.1. Site number identified no site numbering sticker
   - 1.2. Your name and reason for power shut-off
   - 1.3. Provide duration of outage
2. Pull disconnect hand to "OFF" position
3. Power shut-off verification with approved PG&E standards
4. Notify AT&T NOC upon completion of work
5. Restore power by placing power disconnect handle in the "ON" position
6. Reinstall lock on power handle

SHUT-DOWN PROTOCOL ON 3" X 4" PLAQUE

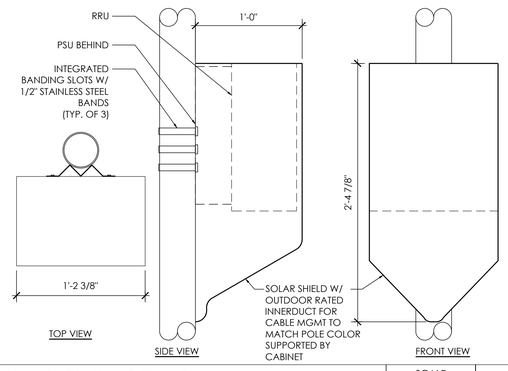
SHUT-DOWN SIGN

SCALE	
NTS	11

4415 SOLAR SHIELD BY ETECHFRP OR EQUIVALENT

COLOR: GRAY
DIMENSIONS: 28.89" TALL X 14.38" WIDE X 10.00"

NOTE: APPLY PAINT WITH UV INHIBITOR PER SHEET T-2

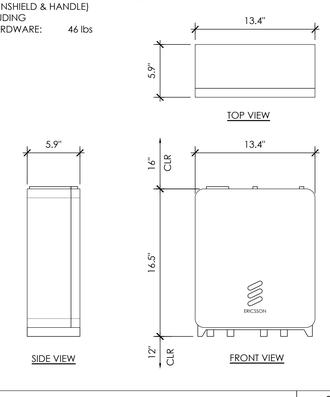


RADIO SHROUD

SCALE	
NTS	8

ERICSSON RRUS 4415 B25 (OR APPROVED EQUIVALENT)

COLOR GRAY
DIMENSIONS: 16.5" TALL x 13.4" WIDE x 5.9"DEEP
(INCLUDING SUNSHIELD & HANDLE)
WEIGHT, EXCLUDING
MOUNTING HARDWARE: 46 lbs

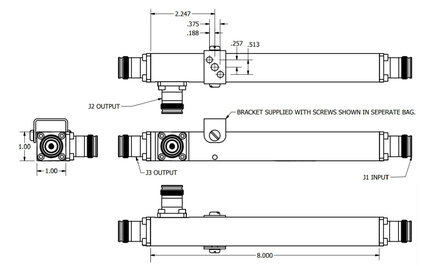


RRUS 4415

SCALE	
NTS	5

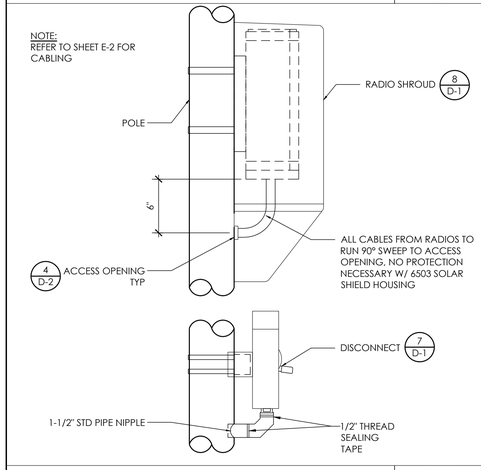
Wide-Band High Power Splitters

Part Number	PET-HPS2W-243 2-Way
Weight	1.5 lbs



SPLITTER

SCALE	
NTS	2

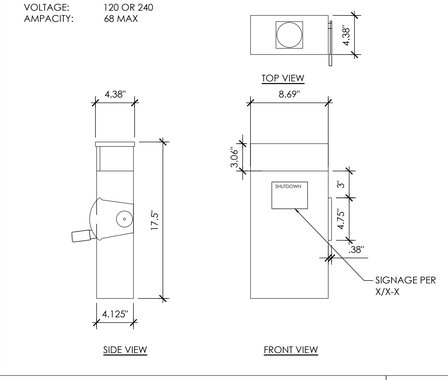


CABLE CONDUIT

SCALE	
NTS	10

TESCO DISCONNECT BOX

COLOR: GRAY
DIMENSIONS: 20.5" TALL x 8.69" WIDE x 4.38" DEEP
TOTAL WEIGHT:
PHASE.: SINGLE
VOLTAGE: 120 OR 240
AMPACITY: 68 MAX

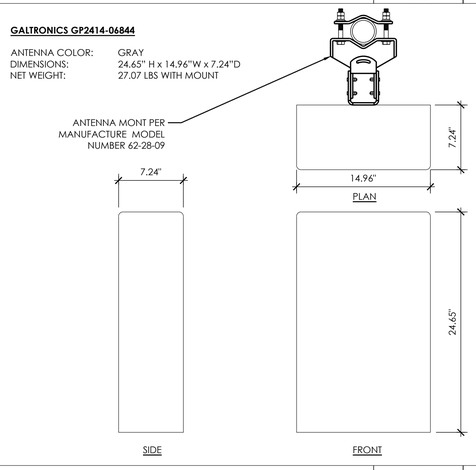


DISCONNECT SWITCH

SCALE	
NTS	7

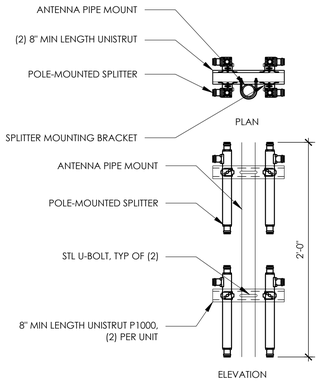
GALTRONICS GP2414-06844

ANTENNA COLOR: GRAY
DIMENSIONS: 24.65" H x 14.96"W x 7.24"D
NET WEIGHT: 27.07 LBS WITH MOUNT



ANTENNA

SCALE	
NTS	4



SPLITTER MOUNT

SCALE	
NTS	1

REGISTERED PROFESSIONAL ENGINEER
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1661 PAGE MILL RD
PALO ALTO, CA 94305

DETAILS

D-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 MATERIAL.
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 MEET GRADE.
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 DAYS.
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 A123.
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"

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 MANUFACTURER'S PACKAGING UNTIL READY FOR IMMEDIATE USE.

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.

SITE:

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 REQUIRED.
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 CRITERIA

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

FOUNDATION NOTES:

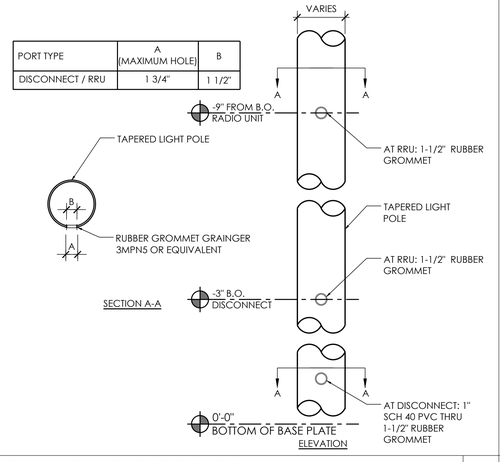
1) STOP FOUNDATION POUR 3 1/2" BELOW GRADE. PLACE FINISH CAP AFTER STANDARD IS SET AND PLUMBED. BUILD UP GROUT UNDER STANDARD BASE ON LOW SIDE (TYP.).
2) SURFACE OF FINISH CAP TO BE AT GRADE AND SLOPED TO MATCH EXISTING OR FUTURE SIDEWALK (TYP.).
3) ANCHOR BOLT DIA AND AB BOLT CIRCLE DIA AS INDICATED (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.

STRUCTURAL NOTES | 7

NOT USED | 6

NOT USED | 5

PORT TYPE	A (MAXIMUM HOLE)	B
DISCONNECT / RRU	1 3/4"	1 1/2"



ELEVATION

CABLE ACCESS PORT | 4

NOT USED | SCALE NTS | 1

AT&T
5005 EXECUTIVE PARKWAY
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94583

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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WALKER
No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

DETAILS

D-2

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

GROUNDING

1. 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.
2. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
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 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.

PRODUCTS

1. ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
2. CONDUIT:
   - 2.1. 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 LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
   - 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.
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 FINISHED FLOOR.
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.
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.

INSTALLATION

1. 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

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

ELECTRICAL LEGEND

G	GROUND
T	TELCO
E	ELECTRICAL
LINE	LINE
L1	LINE 1
LOAD	LINE 1
L2 OR N	L2 OR NEUTRAL
E/T	ELECTRICAL/TELCO
A	COAX
FO	FIBER
O/H	OVERHEAD
OH P/T	OVERHEAD POWER/TELCO
OHT	OVERHEAD TELCO
OHP	OVERHEAD POWER
	FUSE
	MECHANICAL CONNECTION
	CIRCUIT BREAKER
	5/8" X 10'-0" ,CU. GROUND ROD 24" MIN. BELOW GRADE

at&t

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA
94583

MODUS

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

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

REV	DATE	DESCRIPTION
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0	09/12/24	100% CD
1	07/07/25	100% CD PLAN CHECK
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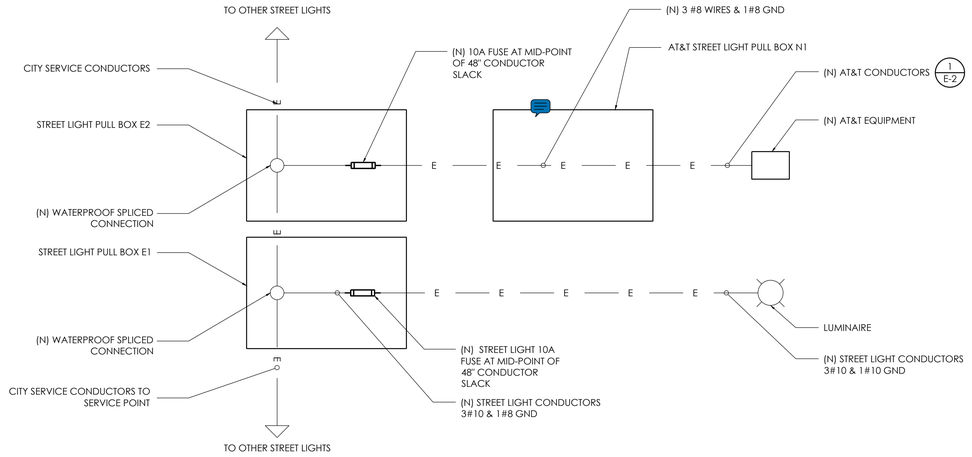
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WRAY
No.65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

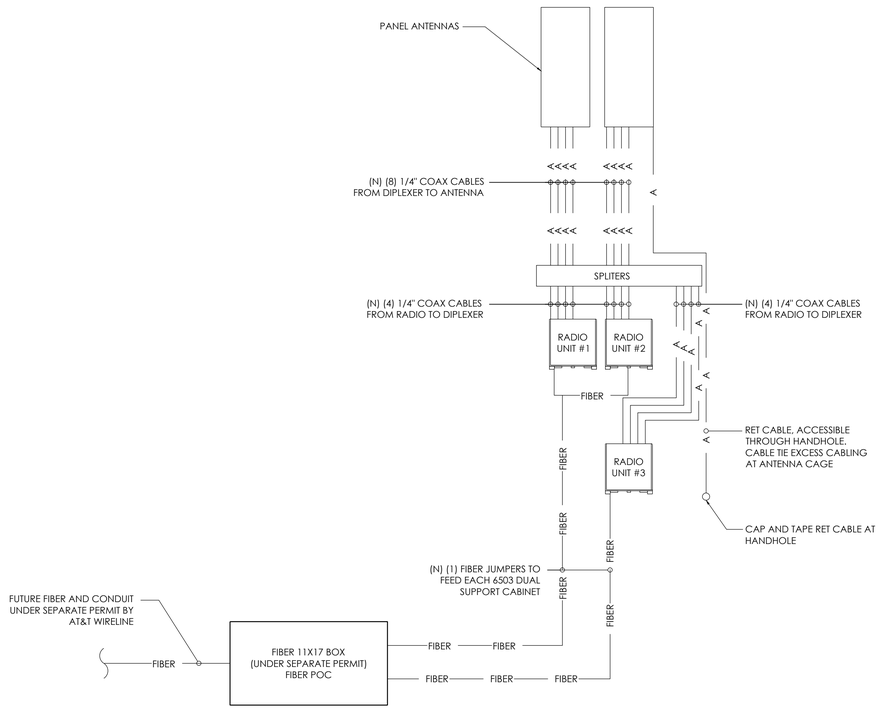
1661 PAGE MILL RD
PALO ALTO, CA 94305

ELECTRICAL GENERAL NOTES

E-1



STREET LIGHT SINGLE LINE DIAGRAM 3



FIBER/COAX DIAGRAM 2

NOTES:
1. GROUND ROD: UL LISTED COPPER CLAD STEEL, MINIMUM 5/8" DIAMETER x 10'-0" LONG. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND CONDUCTOR.

2. CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH STRANDED GREEN INSULATED COPPER CONDUCTORS SIZED AS SHOWN. BOND TO GROUND ROD AS SHOWN IN THE GROUNDING SCHEMATIC.

3. EXTERIOR UNIT BONDS: METALLIC OBJECTS SHALL BE BONDED TO THE EXTERIOR GROUND ROD.

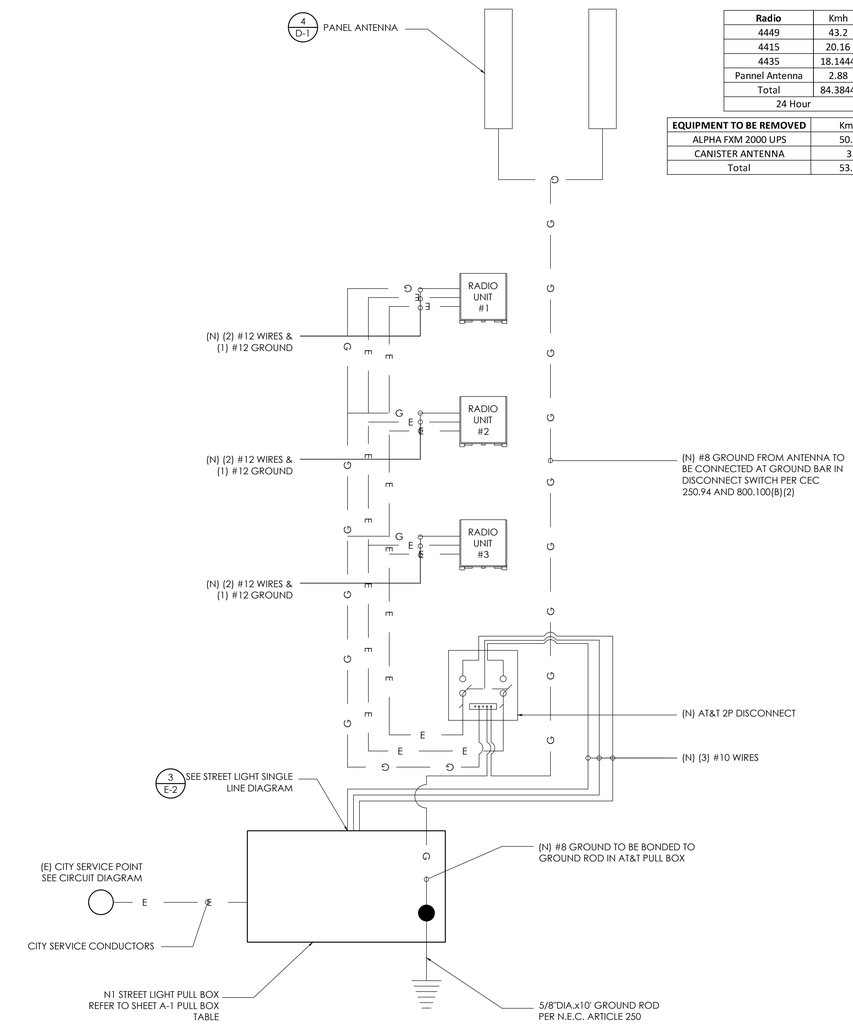
4. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.

5. OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH. ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

LEGEND

FO	FIBER
E	ELECTRICAL
LINE	LINE
L1	LINE 1
LOAD	LINE 1
L2 OR N	L2 OR NEUTRAL
G	GROUND
A	COAX
	FUSE
	GROUND ROD



Radio	Kmh
4449	43.2
4415	20.16
4435	18.1444
Pannel Antenna	2.88
Total	84.3844
24 Hour	

EQUIPMENT TO BE REMOVED	Kmh
ALPHA FXM 2000 UPS	50.4
CANISTER ANTENNA	3
Total	53.4

ELECTRICAL AND GROUNDING DIAGRAM 1

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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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WALKER
No.65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

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1661 PAGE MILL RD
PALO ALTO, CA 94305

ELECTRICAL SINGLE-LINE AND GROUNDING DIAGRAM

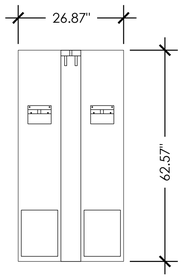
E-2

NOT USED 12

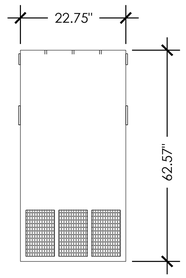
NOT USED 9

NOT USED 6

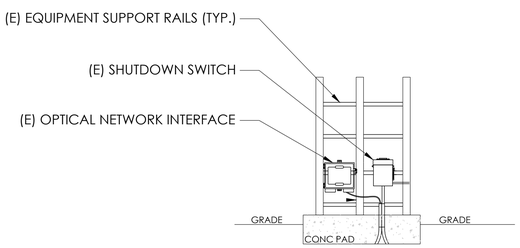
NOT USED 3



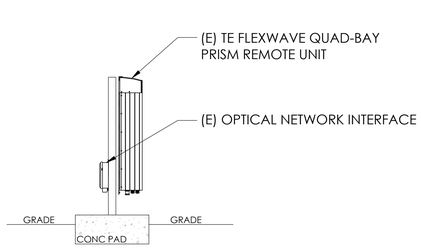
PRISM GROUND MOUNDED SHROUD
FRONT VIEW



PRISM GROUND MOUNDED SHROUD
SIDEVIEW



PRISM GROUND MOUNDED SHROUD
FRONT VIEW
(CABINET SHELL OFF)



PRISM GROUND MOUNDED SHROUD
SIDE VIEW
(CABINET SHELL OFF)

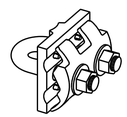
ELECTRICAL LOAD CALCS 5

Conduit Fill Calculation				
Conduit Inside Diameter (I.D.):	1.5			
Conduit Fill Calculator				
	Size	**Wire Diameter**	**Quantity**	**Fill Percentage**
Fiber**:	#12	0.13	4	3.00%
ATT Power:	#10	0.164	2	2.39%
ATT Ground:	#8	0.216	1	2.07%
Streetlight Power**:	#8	0.216	2	4.15%
Streetlight Ground:	#8	0.216	2	4.15%
		Total:		**15.76%**

Total calculated fill is less than 40%, therefore OK

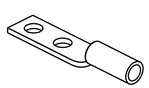
**WORST CASE SIZE OR QUANTITY SHOWN CONSERVATIVELY, SEE PLANS FOR ACTUAL SIZE / QUANTITY REQUIRED

NOT USED 2



BOLT GROUND
ROD CLAMP

GROUND CLAMP



2 HOLE LUG

SPLIT-BOLT
CONNECTORS

EXISTING CABINET AND EQUIPMENT TO BE REMOVED 7

CONDUIT FILL CALCULATIONS 4

MECHANICAL CONNECTION 1

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

REV	DATE	DESCRIPTION
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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WALKER
No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

ELECTRICAL DETAILS

E-3

240 Stockton Street, 3rd Floor
San Francisco, CA 94108
www.moduslic.com

July 24, 2024

Carrier: 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

ANALYSIS:
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:

Pole	*OK **
Foundation	*OK **

* See Recommendations Section

240 Stockton Street, 3rd Floor
San Francisco, CA 94108
www.moduslic.com

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.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WENER
No.65117
Exp. 09/30/25
CIVIL
STATE OF CALIFORNIA

07.24.24

CRAN_RSFR_PALO2_054 **29-07-2024** **VM**

Design Criteria

Design Standard:	2013 AASHTO LTS-6		
Wind Speed:	85	*mph*	AASHTO LTS-6 section 3.8.2
Wind Exposure:	C		ASCE7-16 Section 26.7
Cohesive Soil Shear Strength:	1500	*psf*	CalTrans 2017 Standard Plans User Guide

Wind Load on Highway Signs and Light Standards — Pole Top Antenna Shroud Example Calc

AASHTO LTS-6 Section 3

Wind Importance Factor I_i:	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 $V_{3\text{-Sec}}$:	85	*mph*	AASHTO LTS-6 section 3.8.2
Exposure Category:	C		ASCE7-16 Section 26.7

α: 9.5 z_g: 900 *ft* K_{zmin}: 0.87
AASHTO LTS-6 section C3.8.4

Centroid Highest Appurtenance z AGL:	28.00	*ft*	
Exposure Coefficient $K_z = 2.01(z/z_g)^{2/\alpha}$:	0.97		AASHTO LTS-6 equation C3.8.4-1
Gust Factor:	1.14		AASHTO LTS-6 section 3.8.5
Design Wind Pressure $P_z = .00256K_zGV^2I$:	20.41	*psf*	AASHTO LTS-6 equation 3.8.3-1
Wind Drag Coefficient C_d:	0.45		AASHTO LTS-6 table 3.8.6-1
Projected Area A:	7.00	ft^2	
Effective Projected Area EPA = C_dA:	3.15	ft^2	
W = P_zEPA:	64	*#s*	
	ASD		

CRAN_RSFR_PALO2_054 **29-07-2024** **VM**

Service Light Pole Loading (Normal Wind Load)

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

CRAN_RSFR_PALO2_054 **29-07-2024** **VM**

Service Light Pole Sign Moment & Pole Masking (Normal Wind Load)

Item	Existing or Proposed	Centroid AGL *ft*	Projected Area *sq ft*	Shape	Drag Coefficient C_d	EPA + *sq ft*	EPA - *sq ft*	W ASD *#s*	M W ASD *ft-#s*
Design Wind Pressure P_z =		20.41 *psf*							
Sign 1	E	24.00	0.49	F	1.13	0.19	0.00	4	95
								Shear	Moment
Base Normal Signage and Masking Wind Reactions Total (ASD):								4	95

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

CRAN_RSFR_PALO2_054 **29-07-2024** **VM**

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

Item	Existing or Proposed	Centroid AGL *ft*	Projected Area *sq ft*	Shape	Drag Coefficient C_d	EPA + *sq ft*	EPA - *sq ft*	W ASD *#s*	M Wind ASD *ft-#s*
Design Wind Pressure P_z =		20.41 *psf*							
Pole (Round)	P	13.33	16.33	R	0.81	13.17	0.00	269	3586
Luminaire Arm	P	28.69	0.59	R	1.10	0.64	0.00	13	377
Luminaire	P	30.00	N/A	R	N/A	0.30	0.00	6	184
Antenna	P	28.00	21.00	R	0.45	9.45	0.00	193	5401
SOLAR SHIELD W/RRU 4435	P	17.75	2.88	R	1.19	3.43	-1.09	48	849
SOLAR SHIELD W/RRU 4449	P	14.84	2.88	R	1.19	3.43	-1.12	47	700
SOLAR SHIELD W/RRU 4415	P	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
Base Transverse Wind Reactions Total (ASD):								608	11529
AASHTO LTS-6 3.93 Transverse x .2 (Load Case 1):								122	2306

AT&T
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94583

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DRAWN BY:	JLV
CHECKED BY:	TDL
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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WENER
No.65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

STRUCTURAL ANALYSIS

SA-1

WATERFORD

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.

REGISTERED PROFESSIONAL ENGINEER
TIM ALEXANDER
No. E18344
Exp. 31 MAR 2026
ELECTRICAL
STATE OF CALIFORNIA

SIGNED, 10 SEP 2024

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.

Table 1: FCC Limits

Frequency (MHz)	*Limits for General Population/ Uncontrolled Exposure* Power Density (mW/cm^2)	Averaging Time (minutes)	*Limits for Occupational/ Controlled Exposure* Power Density (mW/cm^2)	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:

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

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

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

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.

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.

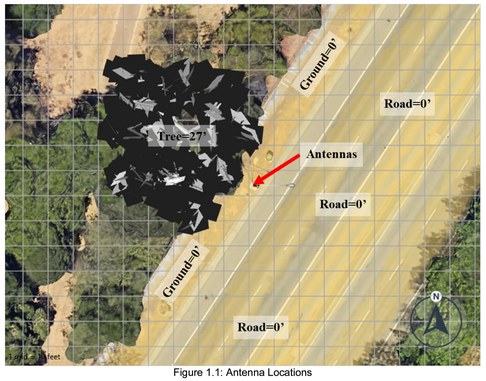
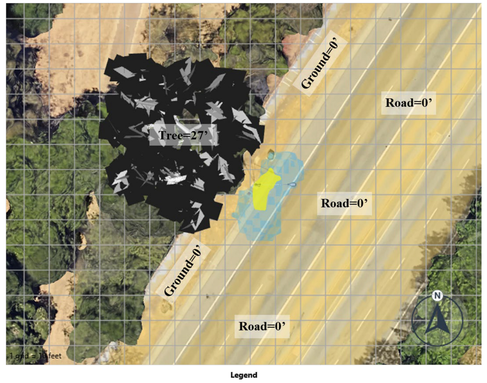


Figure 1.1: Antenna Locations

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

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.



Legend

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% | 500% -5000% | 5000%+

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
3D Sula9 GP 2.5 res	Sula 9	Spatial Average (6 ft)	FCC General Population	2.5 ft3	1.0

AT&T

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

Figure 1.1: Antenna Level

at&t
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA
94583

MODUS
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
3	09/30/25	100% CD PLAN CHECK
4	10/09/25	100% CD PLAN CHECK

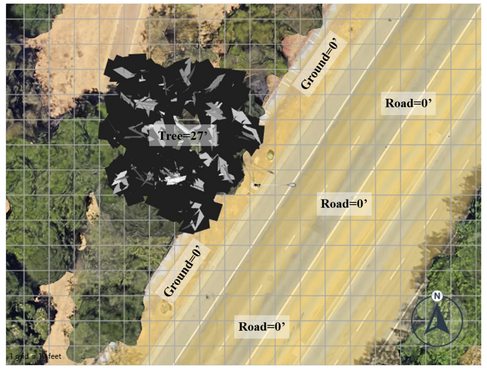
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER K. WRAY
No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

EME REPORT

EME-1



Legend

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

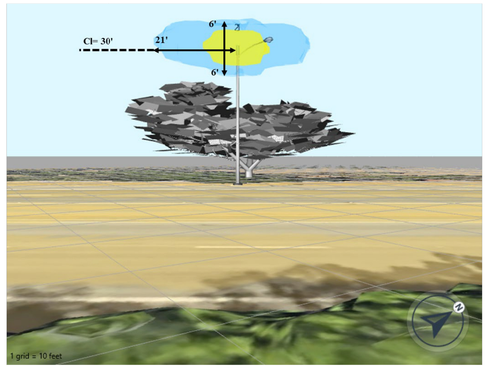
AT&T

Grid Size: 10.00 feet

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

Figure 1.2: All Level

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



Legend

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%	500%-5000%	5000%+

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
3D Sula9 GP 2.5 res	Sula 9	Spatial Average (6 ft)	FCC General Population	2.5 ft3	1.0

AT&T

Grid Size: 10.00 feet

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

Figure 1.3: Elevation Level

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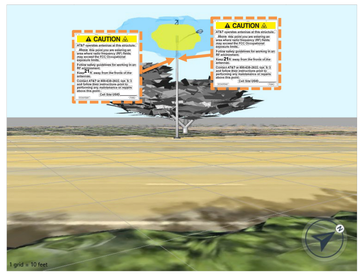
Compliance Requirement Diagram (Access Location)



Recommendations

AT&T Mobility Access Location
Install (2) ACP Caution "Above" signs at 6ft below the antenna or 24ft AGL, 180 degrees opposite to each other viewable from each direction.

Materials
(2) ACP Caution "Above" signs sized 7"x7"

Safe Distance = 21ft
Bottom Distance = 6ft

Proposed Signs/Barriers | Existing Signs/Barriers

Figure 2: Mitigation Recommendations

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Appendix A: Operating Parameters Considered in this Analysis

Ant #	Carrier	Manufacturer	Antenna Model	Type	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

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AT&T
5005 EXECUTIVE PARKWAY
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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER X. WARP
No.65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

EME REPORT

EME-2

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

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

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.

Trees | Shrubs | Lawn | Deer | Ticks | Consulting

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

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Appendices

Appendix A: Project Overview

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

Trees | Shrubs | Lawn | Deer | Ticks | Consulting

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

Appendix B: Photos

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

Trees | Shrubs | Lawn | Deer | Ticks | Consulting

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA
94583

MODUS, LLC
240 STOCKTON ST., 3RD FLOOR
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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. KNOX
No. 65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

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 *

TREE DISCLOSURE STATEMENT

CITY OF PALO ALTO
Urban Forestry Section
Development Review
trees@cityofpaloalto.org 650-496-5953

THIS FORM MUST BE COMPLETED BY A CERTIFIED ARBORIST *

Palo Alto Municipal Code, Chapter 8.10.040, requires disclosure and protection of certain trees located on private and public property, and that they be shown on approved site plans. A completed tree disclosure statement must accompany all applications for development that include exterior work, all demolition or grading permit applications, or other development activity that may impact protected trees.

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

1. **Are there any trees over 4" in trunk diameter being proposed for removal?** ☐ YES ☒ NO
2. **Are there Protected [1] trees on the property or on adjacent property within 30 feet of the proposed building footprint/ area of work?** ☒ YES (continue form) ☐ NO (proceed to question 6)
3. Where are the trees located? Check all that apply. **(Plans submitted must show all trees over 4" in diameter)**
   - ☑ On the property or in the adjacent public right-of-way** and within 30 feet of the proposed building footprint or
   - ☑ On adjacent property within 30 feet of proposed building footprint/area of work or
   - ☐ Close enough that its canopy overhangs the project site

**Street trees on the property or within 30ft of proposed work require special protection by a fenced enclosure per the instructions on the T-1 Sheet. Prior to beginning any work, you must schedule a Street Tree Protection Verification inspection by calling Public Works Operations at 650-496-5953 for an inspection of any required type I, II or III fencing (see attached Detail #605). NOTE: ADU only projects (including Table 1/589) are not exempt.

4. Are there any Protected Native Species Trees, Protected Mature Trees, Heritage Trees, or Designated Trees [1] ?
   ☒ YES (Check below) ☐ NO
   - ☐ **Protected Native Species Trees** - *Acer macrophyllum, Calocedrus decurrens, Quercus agrifolia, Quercus douglasii, Quercus kelloggii,* or *Quercus lobata* 11.5" DBH or more or *Sequoia sempervirens* 18" DBH or more
   - ☑ **Protected Mature Trees** - Any tree equal to or greater than 15" DBH (Excluding invasive species and high water users)
   - ☑ **Designated Trees** - Mitigation trees or commercial and non-residential property trees, which are part of a previously approved landscape plan
   - ☐ **Heritage Trees** - Specific individual trees designated by Council. See the Heritage Tree List
5. Is there activity or grading within the TPZ of these trees? TPZ = radius of 10 times the diameter. ☐ YES ☒ NO

If Yes, a ***Tree Preservation Report*** *must be prepared by an ISA certified arborist and submitted for staff review (see TLTM. Section 5.3.3).* [2] *Attach this report to Sheet T-2,: "Tree Protection, its Part of the Plan!", per Site Plan Requirements.**

6. **Are the Site Plan Requirements completed? (See below)** ☒ YES ☐ NO

*For ADU Only Projects: this form may be filled out by the applicant instead of by a certified arborist. A "Yes" answer to question 5 for Table 1 projects or garage conversions will not require a Tree Preservation Report. Table 1/589 projects are not exempt from tree disclosure.

For All Projects the following is required: Plans (drawn by architect, contractor or arborist) must show the tree species, measured trunk DBH, and Dripline of each tree 4" DBH or larger. ADU only projects may indicate species and tree sizes are estimated/approximate.

For Projects with Trees Requiring Tree Protection: the following is required: 1) Plans (drawn by architect, contractor or arborist) must show the measured trunk DBH and TPZ of each Protected Tree. 2) Plans must denote, as a bold dashed line, a fenced enclosure containing the TPZ per Sheet T-1 and Detail #605 (See also TLTM , Section 3.3 for additional information).

For Projects with Activity or Grading Within the TPZ of a Protected Tree, A Tree Preservation Report is required and must be included in the T-1 set.

I, the undersigned, agree to the conditions of this disclosure. I understand that knowingly or negligently providing false or misleading information in response to this disclosure requirement constitutes a violation of the Palo Alto Municipal Code Section 8.10.040, which can lead to criminal and/or civil legal action. (Note: Applicants signing for ADU only projects will not be penalized for incorrect reporting of tree size or identification of tree species.)

Signature: Klayton D. Soucy Print: Klayton Soucy - WE 14199A ISA#: _____ Date: 3/1/24

[1] **Protected Trees** - Includes any trees belonging to the following categories: **a) Public Trees (Street Trees)** - Trees growing in the city right of way or on public property; **b) Protected Native Species Trees** - Bigleaf Maples, Incense Cedars, Coast Live Oaks, Blue Oaks, CA Black Oaks or Valley Oaks which are 11.5" in diameter or larger and Coast Redwoods which are 18" in diameter or larger, when measured 54" above natural grade; **c) Protected Mature Trees** - All other species of trees with DBH of 15" or larger when measured 54" above natural grade (Excluding invasive species and high water users); **d)** Heritage Trees - Individual trees designated by City Council (See Heritage Tree List); and **e) Designated Trees** - mitigation trees or commercial and non-residential property trees, which are/were part of an approved landscape plan.

[2] Palo Alto Tree and Landscape Technical Manual (TLTM) contains instructions for all requirements on this form. It is available on our website at: https://www.cityofpaloalto.org/treeordinance

Revised 2/14/2024

LANDSCAPE DISCLOSURE STATEMENT

CITY OF PALO ALTO
Urban Forestry Section
Development Review
trees@cityofpaloalto.org

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 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 & Guidelines document for further details.

PROPERTY ADDRESS: _____

1. **Is there any new or rehabilitated landscape area included in this project?**
   ☐ YES (continue form) ☐ NO (form requirements complete)
2. If new landscape is included, enter the square footage: New Landscape square footage* =
   *If the square footage of new landscaping is greater than 500 square feet the project will need to submit MWELO documentation.
3. If rehabilitated landscape is included, enter the square footage: Rehabilitated Landscape* =
   *If the square footage of rehabilitated landscaping is greater than 2500 square feet the project will need to submit MWELO documentation.
4. Enter the total combined square footage of all landscaping included in the project*=
   *If the total square footage of all landscaping is greater than 2500 square feet the project will need to submit MWELO documentation.

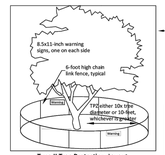
I, the undersigned, agree that the above information is accurate and complete. I understand that knowingly or negligently providing false or misleading information in response to this disclosure requirement may delay project approval.

Signature: _____ Print: _____ Date: _____

Revised 09/05/2023

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)

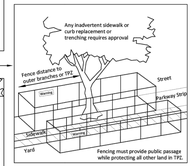
Tree Protection Zone (TPZ) shown in gray (radius of TPZ equals 10-times the diameter of the tree or 10-feet, whichever is greater).
- Restricted activity area - see Tree & Landscape Technical Manual Sec 3.3.52(A)
- Restricted trenching area - see Tree & Landscape Technical Manual Sec 3.3.52(D-F), any proposed trench or form work within TPZ of a protected tree requires approval from Public Works Operations. Call 650-496-5953.



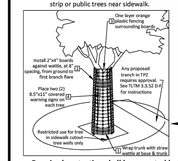
Type I Tree Protection: Layout configuration applies to all Protected Trees, matching the site diagram with the tree preservation report (TPR) distances written for this project. Fencing should be shown on plans as it will be installed. A curved fence for a TPZ is generally not practical.

Inspection pass/fail is dependent on correct layout and mounted sign placard.

Place two (2) 8.5"x11" covered warning signs at each tree.



Type II Tree Protection: Layout configuration applies to all parkway strip or public trees near sidewalk.



Type III Tree Protection: Layout for trunk protection applies to all Protected Trees when exclusively authorized for sidewalk cut-out. To be used only with approval from Public Works Operations.

Required protection shall be executed before demolition, excavation or site work occurs.

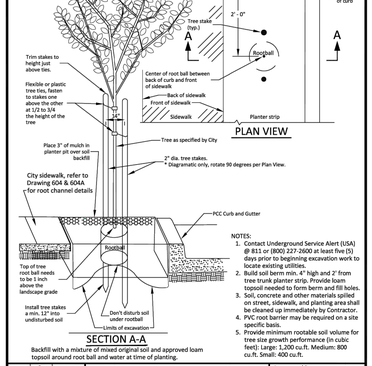
Rev	By	Date
1	DO	08/10/06
2	JGH	06/02/16
3	RTN	05/22/17
4	PGG	02/14/24

Scale: NTS

Tree Protection During Construction

City of Palo Alto Standard

Approved by: P. GOLLINGER
PE No. ISA-WE: 7320BM
Date 02/14/2024
Dwg No. 605



Rev	By	Date
1	Ron L	04/15/03
2	JT	08/14/06
3	HQN	03/19/07
4	RTN	06/11/17

Scale: NTS

Tree Detail Planter Strip

City of Palo Alto Standard

Approved by: _____
PE No. 72158
Date 01/10/18
Dwg No. 603

URBAN FORESTRY STANDARD CONDITIONS

The following conditions and/or standard Municipal Code requirements are provided for supplemental guidance, recommendation and/or best practices. Any applicable items shall be addressed in any permit application such as a Building Permit, Excavation and Grading Permit, Certificate of Compliance, Street Work Permit, Encroachment Permit, etc.

TREE PROTECTION COMPLIANCE: The owner and contractor shall implement all protection and inspection schedule measures, design recommendations and construction scheduling as stated in the Tree Preservation Report and/or Sheet T-1 and is subject to code compliance action pursuant to PAMC 8.10.080. The required protective fencing shall remain in place until final landscaping and inspection of the project.

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 revision to the Development Services Department for review by Planning, Public Works or Urban Forestry.

TREE DAMAGE: Tree Damage, Injury Mitigation and Inspections apply to the Contractor. Reporting, injury mitigation measures and arborist inspection schedule apply pursuant to TLTM, Section 5.3. Contractor shall be responsible for the repair or replacement of any publicly owned or protected trees that are damaged during the course of construction, pursuant to Title 8 of the Palo Alto Municipal Code, and city Tree and Landscape Technical Manual, Section 3.3.5 - 4.

URBAN 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 around the tree canopy area shall not be altered. No waste material or construction byproducts allowed within the TPZ. Trees to be retained shall be irrigated, aerated and maintained as necessary to ensure survival.

EXCAVATION RESTRICTIONS APPLY - TLTM, Sec. 3.3.5 - 2c: Any approved grading, digging or trenching beneath a tree canopy shall be performed using 'air-spade' method as a preference, with manual hand shovel as a backup. For utility trenching, including sewer line, roots exposed with diameter of 1.5 inches and greater shall remain intact and not be damaged. If directional boring method is used to tunnel beneath roots, then CPA Standard Detail #604 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 are subject to replacement to avoid a loss of canopy at the neighborhood level. Replacement ratios are determined by table 4-2 in the Tree and Landscape Technical Manual, Section 4.3. New landscape tree plantings (24" box or larger) count towards the replacement total. Screening trees may also count toward the total depending on size and species selected. If unable to plant the required number of trees on site (our preferred solution) there is the option of paying in-lieu fees per each 24" box tree into the forestry fund. (Note: Replacement at 1:1 ratio for trees listed as exempt species under PAMC 8.10.020 is recommended but not required.)

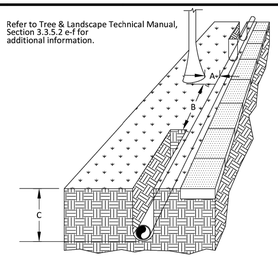
PLAN SET REQUIREMENTS: The final Plans submitted for a building permit shall include the location, DBH, and drip-line of all trees 4" DBH or greater as well as the following information and notes on relevant plan sheets:

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.

c. TREE PROTECTION FENCING, The Plan Set (esp. site, demolition, grading & drainage, foundation, irrigation, tree disposition, utility sheets, etc.) must delineate/show the correct configuration of Type I, Type II or Type III fencing around each Protected Tree, using a bold dashed line enclosing the Tree Protection Zone (CPA Standard Detail #605).

NOTE: Refer to Tree & Landscape Technical Manual, Section 3.3.5.2 e-f for additional information.



Tree trunk diameter	Distance of bore from each side of treetrunk "A"	Distance of open trench from tree-trunk "B"	Depth of bore or trench "C"
in	in	ft	ft
2	2	3	3.00
3	3	6	3.25
6	5	10	3.33
12	6	12	3.67
18	7	14	4.00
24	8	16	4.33
30	9	18	4.67
36	10	20	4.83
42	12	22	5.00

Rev	By	Date
1	MMN	3/15/05
2	JT	08/14/06
3	RTN	06/11/17
4	PGG	11/23/22

Scale: NTS

Utility Trenching Near Trees

City of Palo Alto Standard

Approved by: _____
PE No. 72158
Date 01/10/18
Dwg No. 504

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 requires 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

Project Data

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

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
3	09/30/25	100% CD PLAN CHECK
4	10/09/25	100% CD PLAN CHECK

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WINCH
No.65117
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94305

TREE PROTECTION PLAN

TP-2

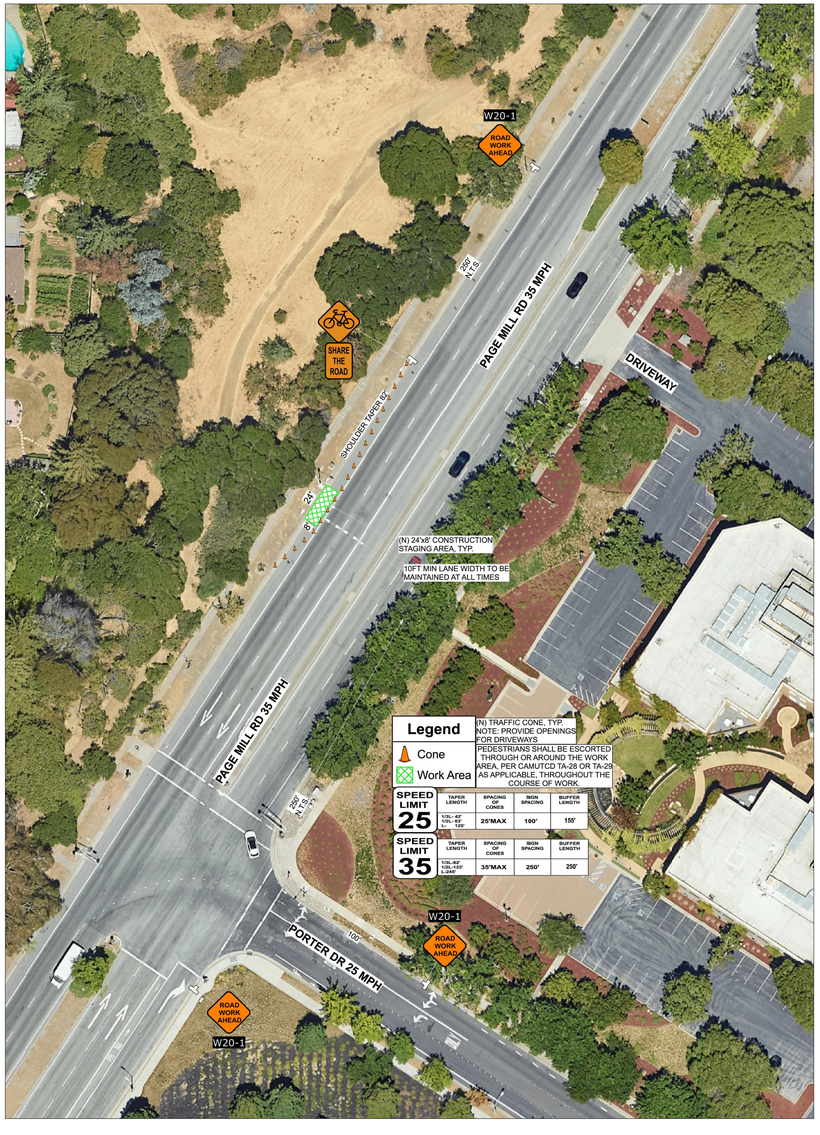
T-1

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
* 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

T-1

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



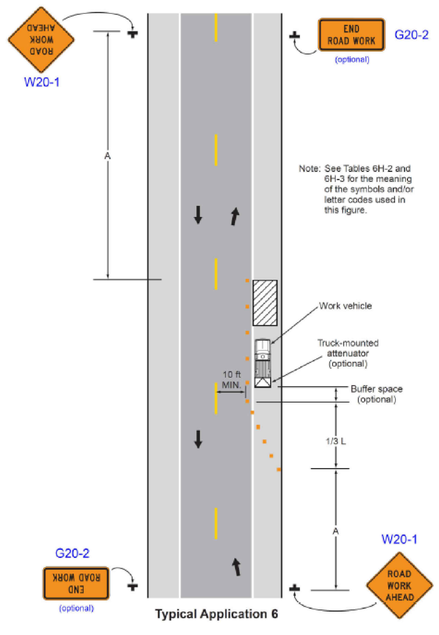
CAMUTCD TABLE					
POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER	BUFFER
	A	B	C	L (SEE NOTE)	
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	250'	250'	250'	180'	250'
35	250'	250'	250'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
55	500'	500'	500'	660'	495'
60	500'	500'	500'	720'	570'
65	500'	500'	500'	780'	645'

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

TRAFFIC CONTROL TABLE | 2

SPEED LIMIT = 35 MPH

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



Typical Application 6

TA-6 FOR REFERENCE ONLY

N

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 RECORD.

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
- STAGING AREA
- 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

REV	DATE	DESCRIPTION
0	01/16/24	100% CD

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WINKEL
No. 65117
Exp. 09/30/25
STATE OF CALIFORNIA
CIVIL

CRAN_RSFR_PALO2_054

1661 PAGE MILL RD
PALO ALTO, CA 94304

TRAFFIC CONTROL PLAN

TCP-1

TRAFFIC CONTROL PLAN

24"x36" SCALE: 1" = 40'-0"
11"x17" SCALE: 1" = 80'-0"

40' 20' 0" 40'

SCALE 1"=40'-0"

1