SITE NAME: STANFORD RAN 32 / VENUE
SITE ADDRESS: 805 RAIMUNDO WAY STANFORD, CA 94305
COUNTY: SANTA CLARA
JURISDICTION: SANTA CLARA
SITE TYPE: NEW 49'-11" MONOPINE (NEW FACILITY)
PROJECT: LTE MIMO ON 700MHz AND 1900MHz

CROWN CASTLE

SITE INFORMATION

CROWN CASTLE FIBER LLC

SITE NAME:	STANFORD RAN 32 / VENUE
SITE ADDRESS:	805 RAIMUNDO WAY STANFORD, CA 94305
PROPERTY OWNER:	STANFORD UNIVERSITY 616 SERRA ST STANFORD, CA 94305
MAP/PARCEL #:	142-21-084
LATITUDE:	37.412162
LONGITUDE:	-122.158581
GROUND ELEVATION:	±236'
CURRENT ZONING:	R1S-n3
JURISDICTION:	SANTA CLARA
LEASE AREA:	±204 SQFT
ACCESSIBILITY REQUIREMENTS:	THE FACILITY IS UNMANNED AND NOT FOR CONTINUOUS HUMAN HABITATION. DISABLED / CHALLENGED ACCESS IS NOT REQUIRED PER CBC 2022, SECTION 11B-203.4(LIMITED ACCESS SPACE)
POWER COMPANY:	STANFORD UNIVERSITY
WATER COMPANY:	SANTA CLARA VALLEY WATER DISTRICT

PROJECT TEAM

ARCHITECTURAL & ENGINEERING CONTACTS:	LEAF COMMUNICATIONS 1000 CALLE CORDILLERA SAN CLEMENTE, CA 92673 DAN LEAF- (949) 485-8793 DAN.LEAF@LEAFCOMM.COM
ENGINEER OF RECORD CONTACT:	LEAF COMMUNICATIONS 1000 CALLE CORDILLERA SAN CLEMENTE, CA 92673 ESRA H. PERSELLIN, P.E. - (949) 388-0192 ESRA.PERSELLIN@LEAFCOMM.COM
PROJECT MANAGER CONTACT:	CROWN CASTLE 1 PARK PL, DUBLIN, CA 94568 CHRIS BROOKSBANK CHRIS.BROOKSBANK@CROWNCASTLE.COM

CALL CALIFORNIA ONE CALL
(800) 227-2600
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

DRAWING INDEX

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PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE A CO-LOCATION WIRELESS INSTALLATION ON A NEW MONOPINE:

MONOPINE SCOPE OF WORK:
- INSTALL (1) 49'-11" MONOPINE WITH FOUNDATION
- INSTALL (3) PANEL ANTENNAS
- INSTALL (1) ANTENNA TRI MOUNT

GROUND SCOPE OF WORK:
- INSTALL (1) 8'-6"x10'-0" CONCRETE PAD
- INSTALL 8'-0" HIGH CHAIN-LINK FENCE W/ BLACK SLATS
- INSTALL (1) H-FRAME
  - INSTALL (9) REMOTE RADIO UNITS
- INSTALL (1) H-FRAME
  - INSTALL (1) DISTRIBUTION PANEL
  - INSTALL (1) FIBER CABINET
- INSTALL (2) CABLE ICE BRIDGES

NOTE: NO GRADING REQUIRED

DESIGN REFERENCE DOCUMENT:
Leaf-RAN 32-48623243_ATT_RF_Design_Rev03
DATED: 07/16/2018

NOTE:
PROJECT SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS POLE OR STRUCTURE. NEW EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE POLE AND ITS FOUNDATION HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, A STRUCTURAL EVALUATION OF THE POLE OR STRUCTURE SHOULD BE PERFORMED

PROJECT TEAM APPROVAL

CROWN (NRE): _____ (DATE)

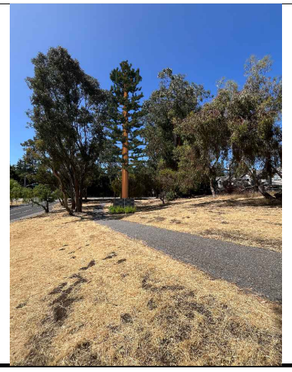
CROWN (PM): _____ (DATE)

CROWN (RF): _____ (DATE)

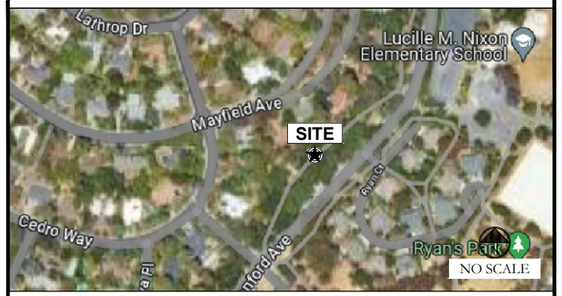
STANFORD (IT): _____ (DATE)

GUP CHECKLIST: _____ (DATE)

SITE PHOTO SIMULATION



LOCATION MAP



FROM CROWN CASTLE OFFICE: 1 PARK PL, DUBLIN, CA 94568

- GET ON I-580 W FROM HACIENDA DR
- TAKE I-680 S TO CA-262 S/MISSION BLVD IN FREMONT. TAKE EXIT 12 FROM I-680 S
- TAKE I-880 S, CA-237 W AND US-101 N TO OREGON EXPY IN PALO ALTO. TAKE EXIT 402 FROM US-101 N
- CONTINUE ON OREGON EXPY. TAKE PAGE MILL RD TO RAIMUNDO WAY
- TAKE A LEFT ON RAIMUNDO WAY

DESTINATION WILL BE ON THE RIGHT

JURISDICTION APPROVAL

SANTA CLARA COUNTY
PLANNING DEPARTMENT
70 W HEDDING ST
7TH FLOOR, EAST WING
SAN JOSE, CA 95110
_____ (DATE)

STANFORD UNIVERSITY
PLANNING DEPARTMENT
31160 PORTER DR
PALO ALTO, CA 94304
_____ (DATE)

APPLICABLE CODES/REFERENCE DOCUMENTS

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

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
CITY/COUNTY ORDINANCES
ANSI/TIA-222-H

NOTES:
- PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT DRAINAGE; NO SANITARY SEWER SERVICE, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
- ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CROWN CASTLE
1 PARK PLACE PLACE
DUBLIN, CA 94568

LEAF COMMUNICATIONS
1000 CALLE CORDILLERA
SAN CLEMENTE, CA 92673
WWW.LEAFCOMM.COM
TEL: (949) 388-0192

SITE NAME:
STANFORD RAN 32 / VENUE
SITE ADDRESS:
805 RAIMUNDO WAY
STANFORD, CA 94305
SITE TYPE:
NEW 49'-11" MONOPINE
(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1

REVISION: 4

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN STANDARD CED-STD-10253 INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER.....2 IN.
   #5 AND SMALLER & WWF.....1 1/2 IN.
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALLS.....3/4 IN.
   BEAMS AND COLUMNS.....1 1/2 IN.

5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

MASONRY NOTES:

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR-
   SUBCONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)
   TOWER OWNER- CROWN CASTLE FIBER LLC
   OEM- ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH 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 AND CROWN CASTLE.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR 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.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

AGL	ABOVE GRADE LEVEL
BTS	BASE TRANSCEIVER STATION
(E)	EXISTING
MIN.	MINIMUM
REF	REFERENCE
RF	RADIO FREQUENCY
T.B.D.	TO BE DETERMINED
T.B.R.	TO BE RESOLVED
TYP	TYPICAL
REQ	REQUIRED
EGR	EQUIPMENT GROUND RING
AWG	AMERICAN WIRE GAUGE
MGB	MASTER GROUND BAR
EG	EQUIPMENT GROUND
BCW	BARE COPPER WIRE
SIAD	SMART INTEGRATED ACCESS DEVICE
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
RBS	RADIO BASE STATION

SYMBOLS:

- SOLID GROUND BUS BAR
- SOLID NEUTRAL BUS BAR
- SUPPLEMENTAL GROUND CONDUCTOR
- 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- CHEMICAL GROUND ROD
- TEST WELL
- DISCONNECT SWITCH
- METER
- EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
- MECHANICAL CONNECTION
- GROUNDING WIRE

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "CROWN CASTLE".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

NEC INSULATOR COLOR CODE

DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
480V, 3Ø	PHASE A	BROWN
	PHASE B	ORANGE
	PHASE C	YELLOW

* SEE NEC 210.5(C)(1) AND (2)

CROWN CASTLE
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TEL: (949) 388-0192

SITE NAME:
STANFORD RAN 32 / VENUE
SITE ADDRESS:
805 RAIMUNDO WAY
STANFORD, CA 94305
SITE TYPE:
NEW 49'-11" MONOPINE
(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

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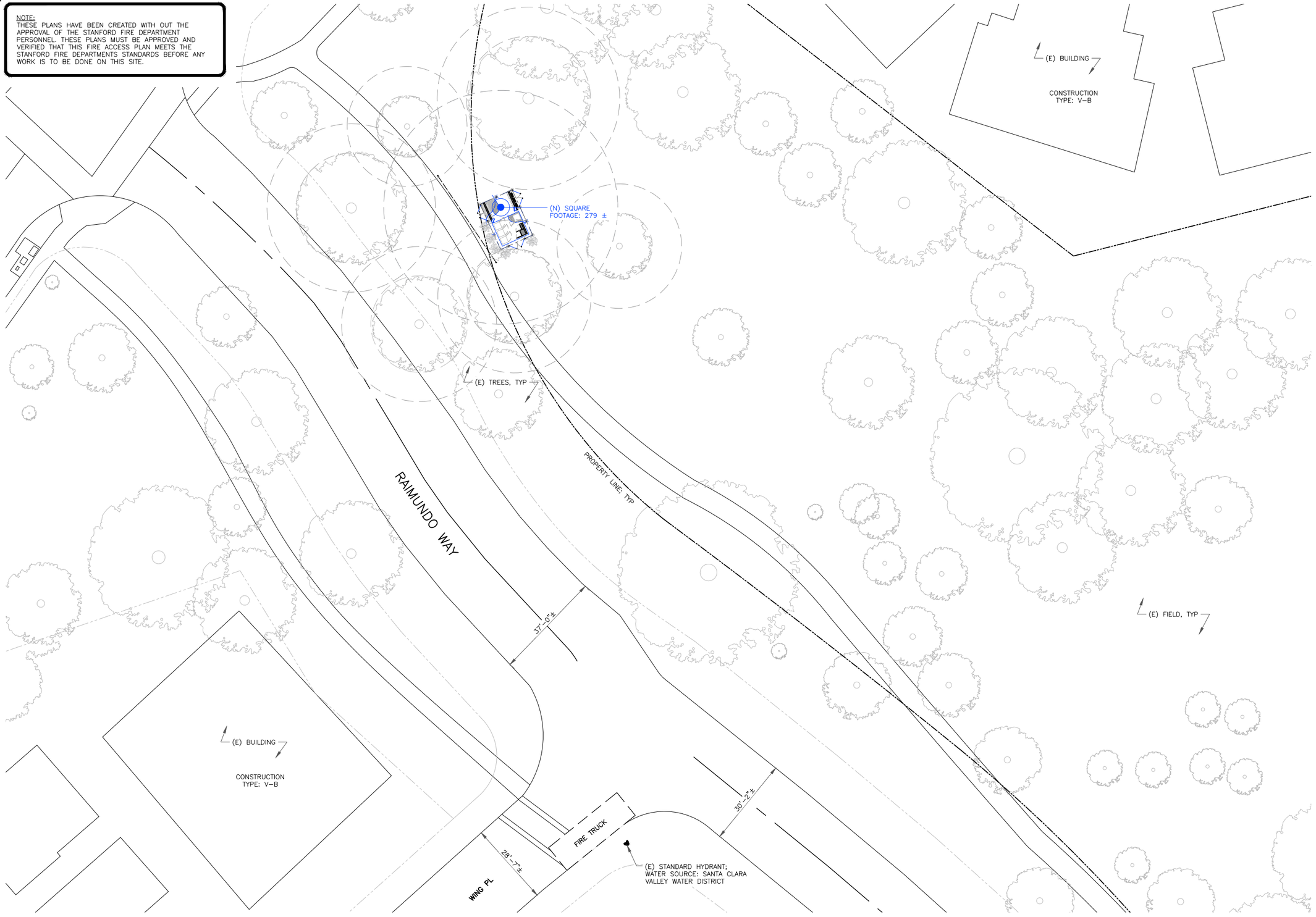
PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER: GN-1
REVISION: 4

NOTE:
THESE PLANS HAVE BEEN CREATED WITH OUT THE APPROVAL OF THE STANFORD FIRE DEPARTMENT PERSONNEL. THESE PLANS MUST BE APPROVED AND VERIFIED THAT THIS FIRE ACCESS PLAN MEETS THE STANFORD FIRE DEPARTMENTS STANDARDS BEFORE ANY WORK IS TO BE DONE ON THIS SITE.



1 FIRE PROTECTION INFORMATION
SCALE: 16' 12' 8' 4' 0 16' 1/16"=1'–0" (FULL SIZE) 1/32"=1'–0" (11x17)

N

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8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
FIRE PROTECTION INFORMATION

SHEET NUMBER: F-1

REVISION: 4

NOTE:
PROJECT SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS POLE OR STRUCTURE. NEW EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE POLE AND ITS FOUNDATION HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, A STRUCTURAL EVALUATION OF THE POLE OR STRUCTURE SHOULD BE PERFORMED

GENERAL NOTES:

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2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION
3. NO GRADING WORK IS INCLUDED IN THIS SCOPE OF WORK ON THIS PAGE.
4. PROPERTY LINES SHOWN ARE PRELIMINARY AND DONE WITHOUT THE BENEFIT OF A SITE SURVEY
5. A SOILS TEST HAS NOT BEEN PERFORMED. THE ANALYSIS IS BASED ON PRESUMPTIVE SOILS PARAMETERS

1 EXISTING SITE PLAN
SCALE: 200' 100' 0 200' 1" = 200'-0" (FULL SIZE) 1" = 400'-0" (11x17)

N

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LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
EXISTING SITE PLAN

SHEET NUMBER: A-1
REVISION: 4

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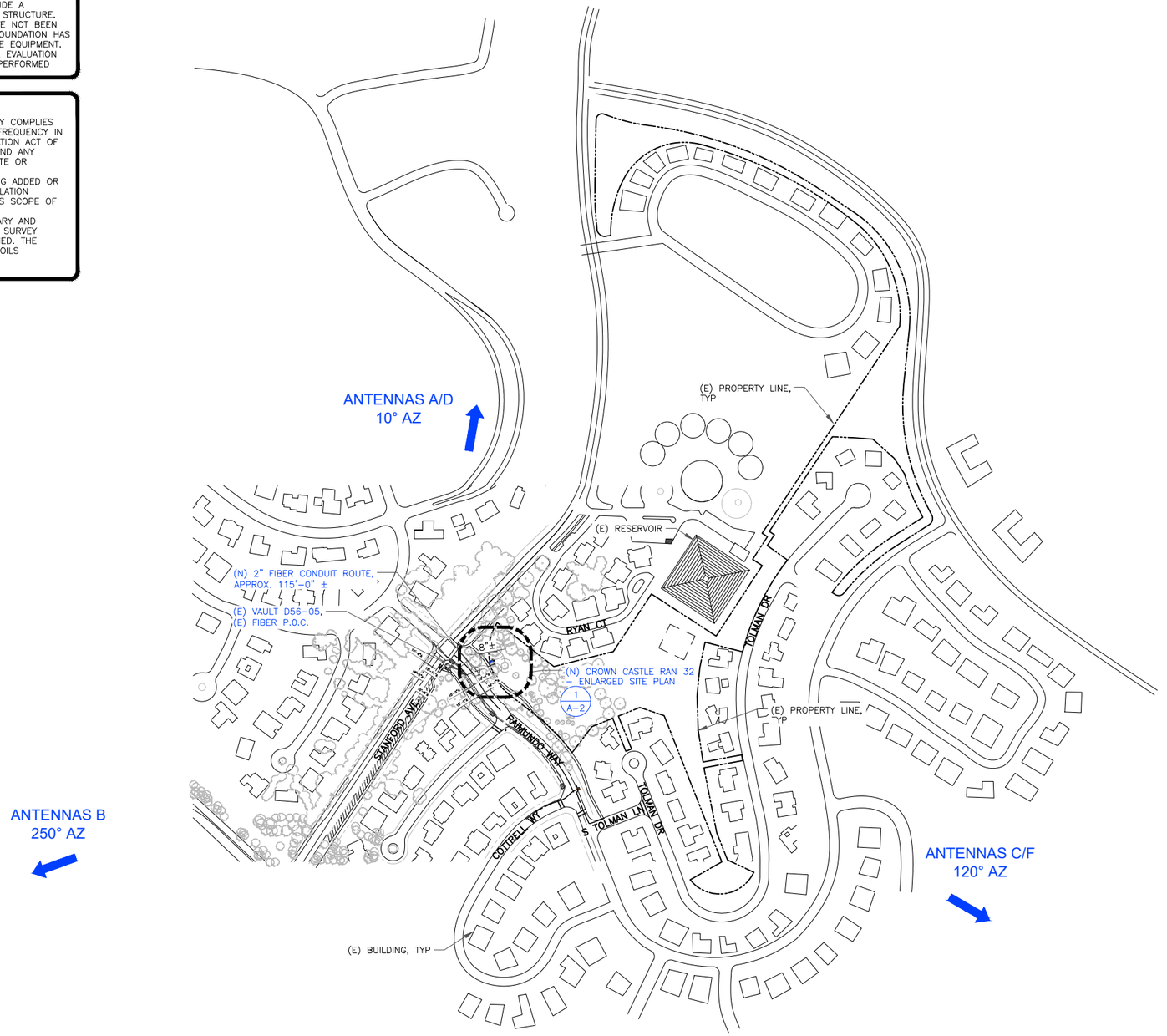

1 PROPOSED SITE PLAN
SCALE: 200' 100' 0 200' 1" = 200'-0" (FULL SIZE) 1" = 400'-0" (11x17)

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LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
PROPOSED SITE PLAN

SHEET NUMBER: A-1.1
REVISION: 4

NOTE:
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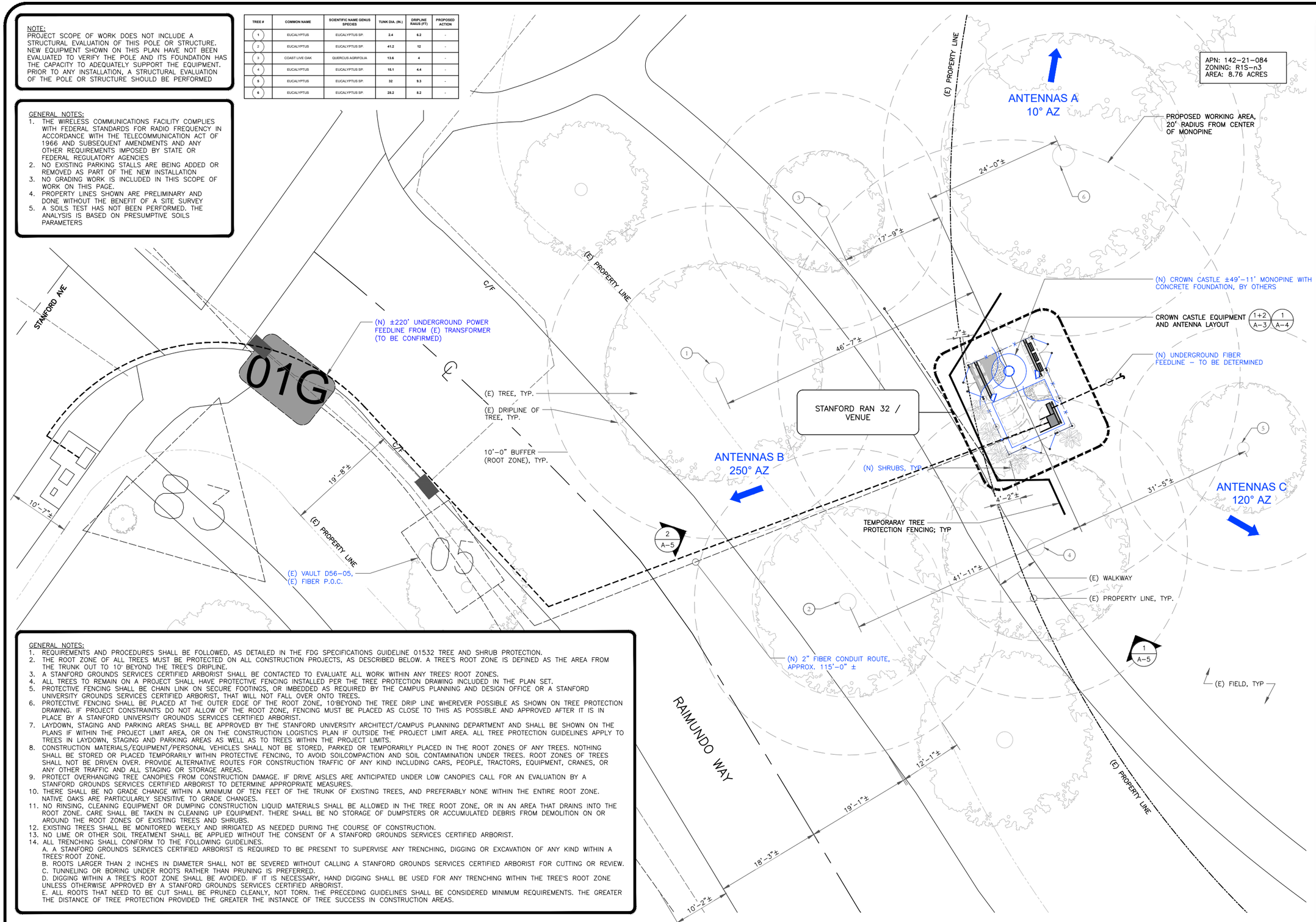
TREE #	COMMON NAME	SCIENTIFIC NAME GENUS SPECIES	TUNK DIA. (IN.)	DRIPLINE RAIUS (FT)	PROPOSED ACTION
1	EUCALYPTUS	EUCALYPTUS SP.	2.4	6.2	-
2	EUCALYPTUS	EUCALYPTUS SP.	41.2	12	-
3	COAST LIVE OAK	QUERCUS AGRIFOLIA	13.6	4	-
4	EUCALYPTUS	EUCALYPTUS SP.	15.1	4.4	-
5	EUCALYPTUS	EUCALYPTUS SP.	32	9.3	-
6	EUCALYPTUS	EUCALYPTUS SP.	28.2	8.2	-



GENERAL NOTES:
1. REQUIREMENTS AND PROCEDURES SHALL BE FOLLOWED, AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01532 TREE AND SHRUB PROTECTION.
2. THE ROOT ZONE OF ALL TREES MUST BE PROTECTED ON ALL CONSTRUCTION PROJECTS, AS DESCRIBED BELOW. A TREE'S ROOT ZONE IS DEFINED AS THE AREA FROM THE TRUNK OUT TO 10' BEYOND THE TREE'S DRIPLINE.
3. A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES' ROOT ZONES.
4. ALL TREES TO REMAIN ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
5. PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING AND DESIGN OFFICE OR A STANFORD UNIVERSITY GROUNDS SERVICES CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
6. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE, 10'BEYOND THE TREE DRIP LINE WHEREVER POSSIBLE AS SHOWN ON TREE PROTECTION DRAWING. IF PROJECT CONSTRAINTS DO NOT ALLOW OF THE ROOT ZONE, FENCING MUST BE PLACED AS CLOSE TO THIS AS POSSIBLE AND APPROVED AFTER IT IS IN PLACE BY A STANFORD UNIVERSITY GROUNDS SERVICES CERTIFIED ARBORIST.
7. LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE STANFORD UNIVERSITY ARCHITECT/CAMPUS PLANNING DEPARTMENT AND SHALL BE SHOWN ON THE PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA. ALL TREE PROTECTION GUIDELINES APPLY TO TREES IN LAYDOWN, STAGING AND PARKING AREAS AS WELL AS TO TREES WITHIN THE PROJECT LIMITS.
8. CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONES OF ANY TREES. NOTHING SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOILCOMPACTION AND SOIL CONTAMINATION UNDER TREES. ROOT ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE AREAS.
9. PROTECT OVERHANGING TREE CANOPIES FROM CONSTRUCTION DAMAGE. IF DRIVE AISLES ARE ANTICIPATED UNDER LOW CANOPIES CALL FOR AN EVALUATION BY A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST TO DETERMINE APPROPRIATE MEASURES.
10. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES, AND PREFERABLY NONE WITHIN THE ENTIRE ROOT ZONE. NATIVE OAKS ARE PARTICULARLY SENSITIVE TO GRADE CHANGES.
11. NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE ROOT ZONE, OR IN AN AREA THAT DRAINS INTO THE ROOT ZONE. CARE SHALL BE TAKEN IN CLEANING UP EQUIPMENT. THERE SHALL BE NO STORAGE OF DUMPSTERS OR ACCUMULATED DEBRIS FROM DEMOLITION ON OR AROUND THE ROOT ZONES OF EXISTING TREES AND SHRUBS.
12. EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
13. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
14. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
    A. A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREES' ROOT ZONE.
    B. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
    C. TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
    D. DIGGING WITHIN A TREE'S ROOT ZONE SHALL BE AVOIDED. IF IT IS NECESSARY, HAND DIGGING SHALL BE USED FOR ANY TRENCHING WITHIN THE TREE'S ROOT ZONE UNLESS OTHERWISE APPROVED BY A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
    E. ALL ROOTS THAT NEED TO BE CUT SHALL BE PRUNED CLEANLY, NOT TORN. THE PRECEDING GUIDELINES SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE GREATER THE DISTANCE OF TREE PROTECTION PROVIDED THE GREATER THE INSTANCE OF TREE SUCCESS IN CONSTRUCTION AREAS.

1 ENLARGED SITE PLAN
SCALE: 8' 6' 4' 2' 0 8' 1/8"=1'-0" (FULL SIZE) 1/16"=1'-0" (11x17)

N

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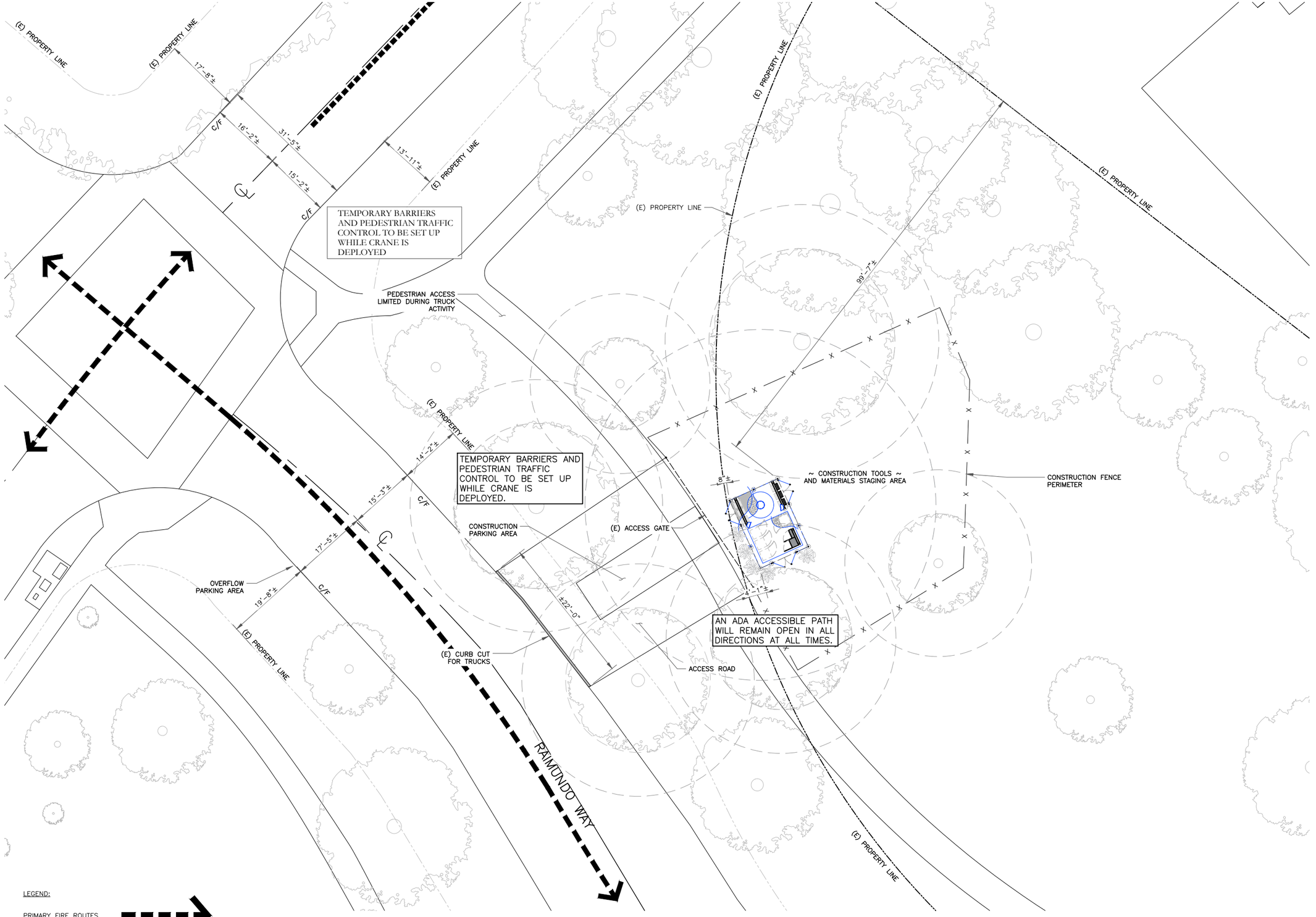
LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
ENLARGED SITE PLAN

SHEET NUMBER: A-2
REVISION: 4



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LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
CONSTRUCTION & LOGISTICS PLAN

SHEET NUMBER: A-2.1

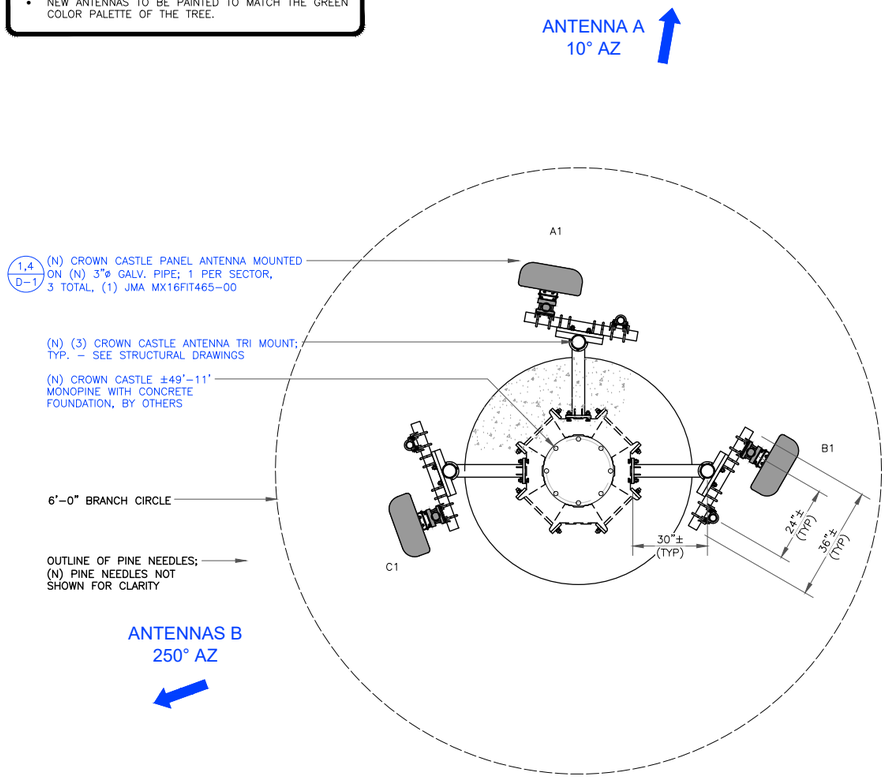
REVISION: 4

PROPOSED ANTENNA SCHEDULE

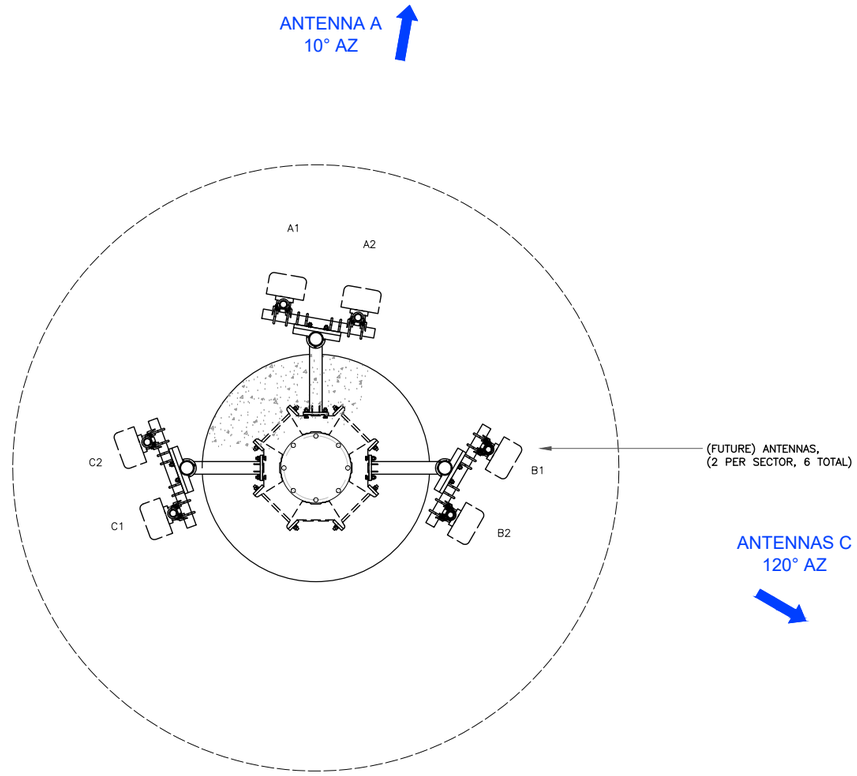
SECTOR		ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA TECHNOLOGY	ANTENNA SPEC'S WEIGHT (LBS) DIMENSIONS (LxWxD)	AZIMUTH	RAD CENTER	RADIO (AT GROUND LEVEL)	CABLE TYPE AND LENGTH
ALPHA	A1	JMA	MX16FIT465-00	LTE 700 | LTE 1900 NR 3700 (5G C-BAND)	54.0 LBS 59"x20.0"x8.0"	10°	47'-0"	(1) ERICSSON RADIO 4415 (B2) | 40W (1) ERICSSON RADIO 4449 (B5/B12) | 40W (1) ERICSSON RADIO 4467 (N77) | 40W	COAX: LDF4-50A (15M) FIBER: CXTD-WM23WF-15M (15M)
	A2	–	–	–	–	–	–	--	
GAMMA	C1	JMA	MX16FIT465-00	LTE 700 | LTE 1900 NR 3700 (5G C-BAND)	54.0 LBS 59"x20.0"x8.0"	120°	47'-0"	(1) ERICSSON RADIO 4415 (B2) | 40W (1) ERICSSON RADIO 4449 (B5/B12) | 40W (1) ERICSSON RADIO 4467 (N77) | 40W	COAX: LDF4-50A (15M) FIBER: CXTD-WM23WF-15M (15M)
	C2	–	–	–	–	–	–	--	
BETA	B1	JMA	MX16FIT465-00	LTE 700 | LTE 1900 NR 3700 (5G C-BAND)	54.0 LBS 59"x20.0"x8.0"	250°	47'-0"	(1) ERICSSON RADIO 4415 (B2) | 40W (1) ERICSSON RADIO 4449 (B5/B12) | 40W (1) ERICSSON RADIO 4467 (N77) | 40W	COAX: LDF4-50A (15M) FIBER: CXTD-WM23WF-15M (15M)
	B2	–	–	–	–	–	–	--	

NOTE:
ANTENNAS AND PINE NEEDLES NOT SHOWN FOR CLARITY

NOTE:
- PROJECT SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS POLE OR STRUCTURE. NEW EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE POLE AND ITS FOUNDATION HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, A STRUCTURAL EVALUATION OF THE POLE OR STRUCTURE SHOULD BE PERFORMED
- NEW ANTENNAS TO BE PAINTED TO MATCH THE GREEN COLOR PALETTE OF THE TREE.



1 PROPOSED – UPPER ANTENNA LAYOUT @ 47'-0"
SCALE: 2' 1' 0 2' 1/2"=1'-0" (FULL SIZE) 1/4"=1'-0" (11x17)



2 FUTURE – LOWER ANTENNA LAYOUT @ 41'-0"
SCALE: 2' 1' 0 2' 1/2"=1'-0" (FULL SIZE) 1/4"=1'-0" (11x17)

CROWN CASTLE
1 PARK PLACE PLACE
DUBLIN, CA 94568

LEAF COMMUNICATIONS
1000 CALLE CORDILLERA
SAN CLEMENTE, CA 92673
WWW.LEAFCOMM.COM
TEL: (949) 388-0192

SITE NAME:
STANFORD RAN 32 / VENUE
SITE ADDRESS:
805 RAIMUNDO WAY
STANFORD, CA 94305
SITE TYPE:
NEW 49'-11" MONOPINE
(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
ANTENNA PLAN LAYOUT

SHEET NUMBER: A-3
REVISION: 4

NOTE:
ANTENNAS AND PINE NEEDLES NOT SHOWN FOR CLARITY

NOTE:
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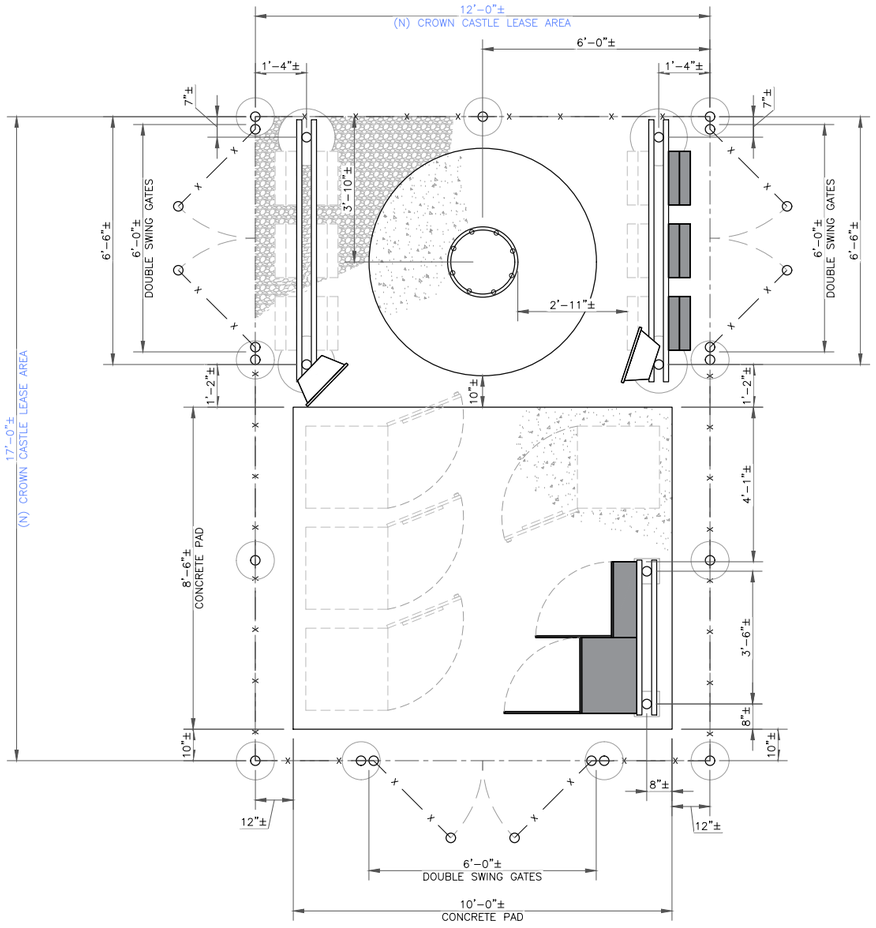
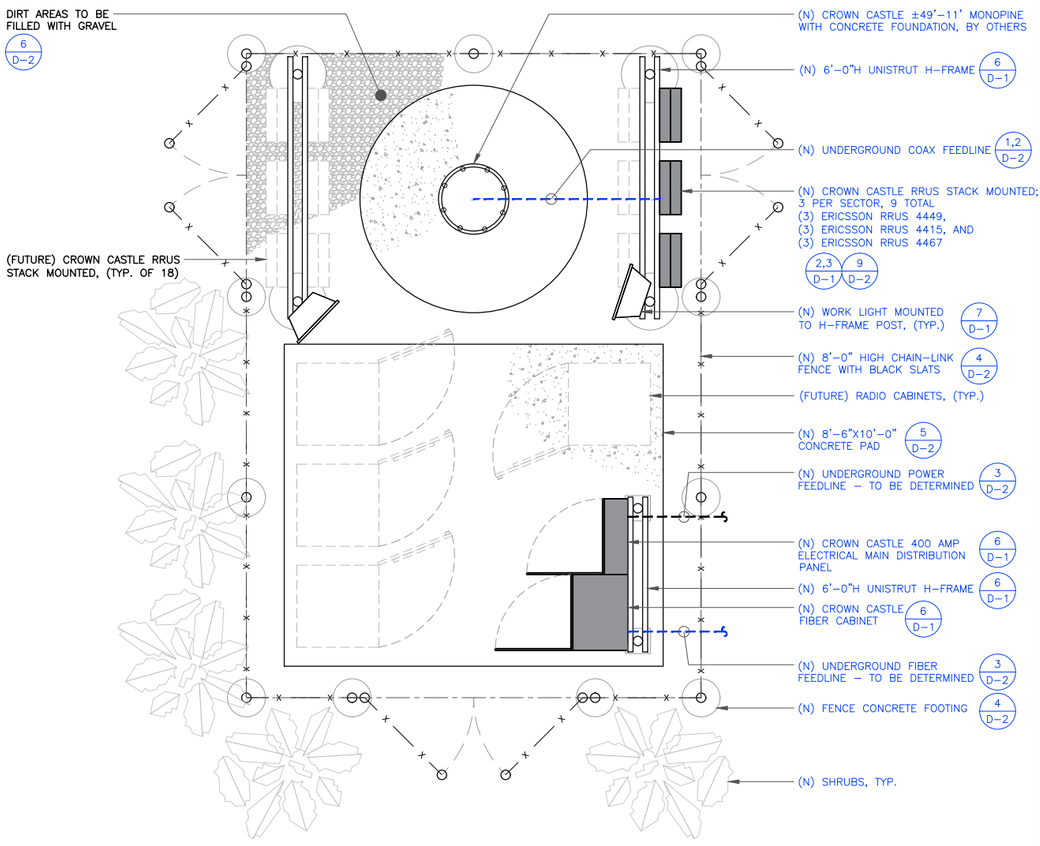
- NEW ANTENNAS TO BE PAINTED TO MATCH THE GREEN COLOR PALETTE OF THE TREE.





1 EQUIPMENT LAYOUT
SCALE: 1/2"=1'-0" (FULL SIZE) 1/4"=1'-0" (11x17)

N

CROWN CASTLE
1 PARK PLACE PLACE
DUBLIN, CA 94568

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CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
EQUIPMENT LAYOUT

SHEET NUMBER: A-4

REVISION: 4

NOTE:
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- NEW ANTENNAS TO BE PAINTED TO MATCH THE GREEN COLOR PALETTE OF THE TREE.

NOTE:
- NO GRADING PROPOSED
- NO NEW LANDSCAPING PROPOSED

NOTICE

POLE WORKERS

There is an antenna operation high on this pole. Please follow guidance on signs near the antenna or call the number below.

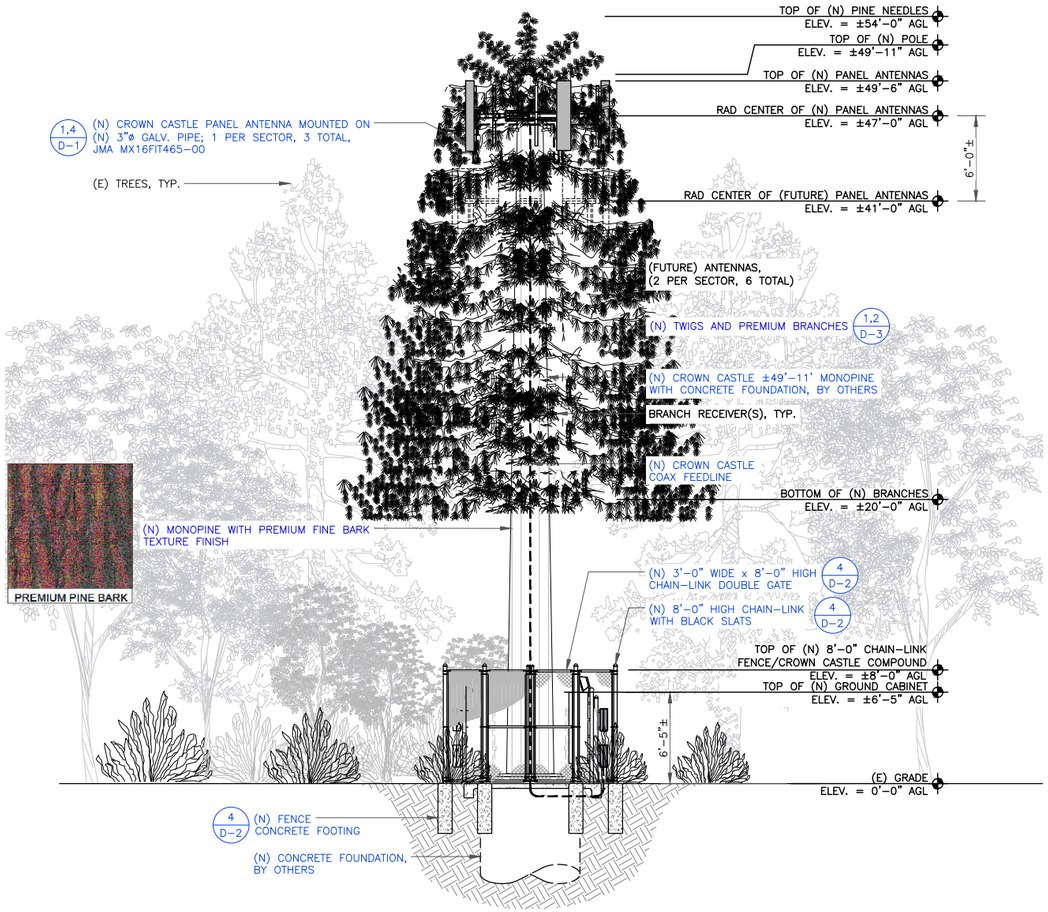
Site ID #

CROWN CASTLE 888-632-0931 Rev. A

CAUTION

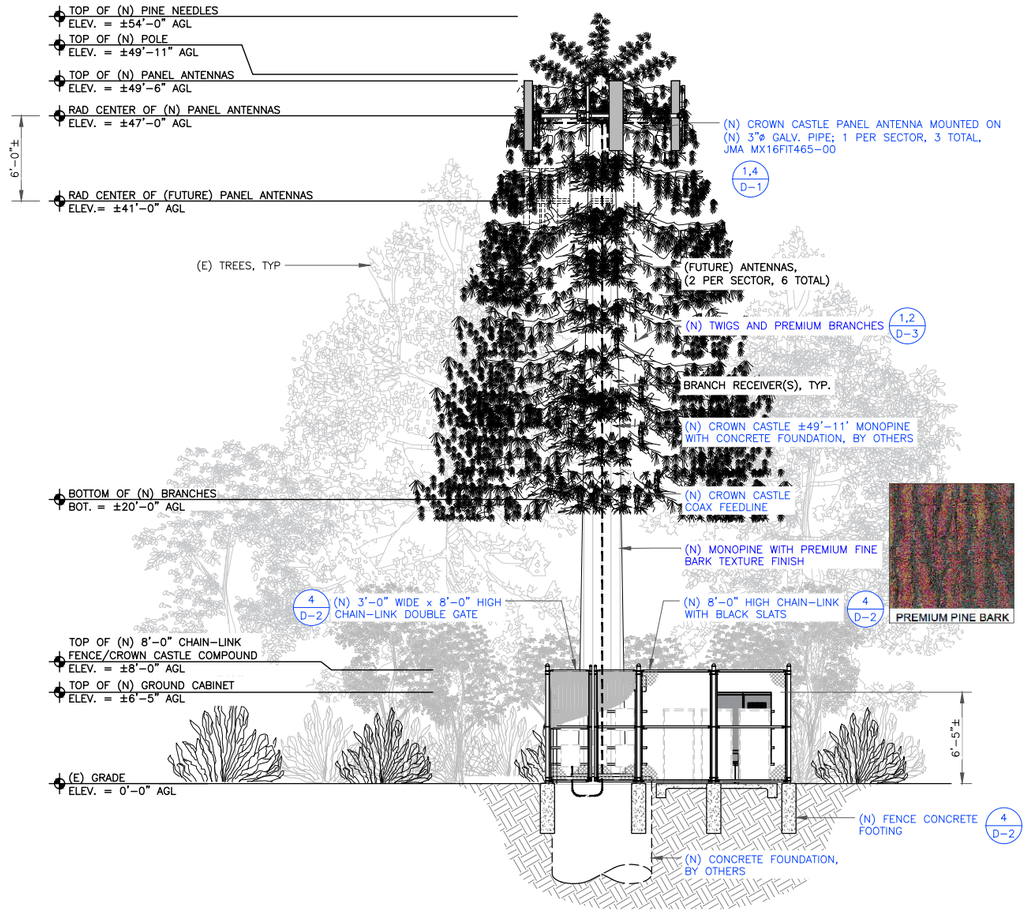
Keep Back 5 FT From this Antenna. FCC RF Public Exposure Limits May Be Exceeded Within This Distance. Call 888-632-0931 for Instructions. Qualified Workers: FCC Occupational Limits May Be Exceeded Within This Distance.

Site ID #



1 PROPOSED SOUTHEAST ELEVATION

SCALE: 4' 2' 0 4' 3/16"=1'–0" (FULL SIZE) 3/32"=1'–0" (11x17)



2 PROPOSED SOUTHWEST ELEVATION

SCALE: 4' 2' 0 4' 3/16"=1'–0" (FULL SIZE) 3/32"=1'–0" (11x17)

NOTE:
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NOTE:
- NO GRADING PROPOSED
- NO NEW LANDSCAPING PROPOSED

CROWN CASTLE
1 PARK PLACE
DUBLIN, CA 94568

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SAN CLEMENTE, CA 92673
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SITE NAME:
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STANFORD, CA 94305
SITE TYPE:
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(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
ELEVATIONS

SHEET NUMBER: A-5

REVISION: 4

NOTE:
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NOTE:
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- NO NEW LANDSCAPING PROPOSED

NOTICE

POLE WORKERS

There is an antenna operation high on this pole. Please follow guidance on signs near the antenna or call the number below.

Site ID #

CROWN CASTLE 888-632-0931

Rev. A

CAUTION

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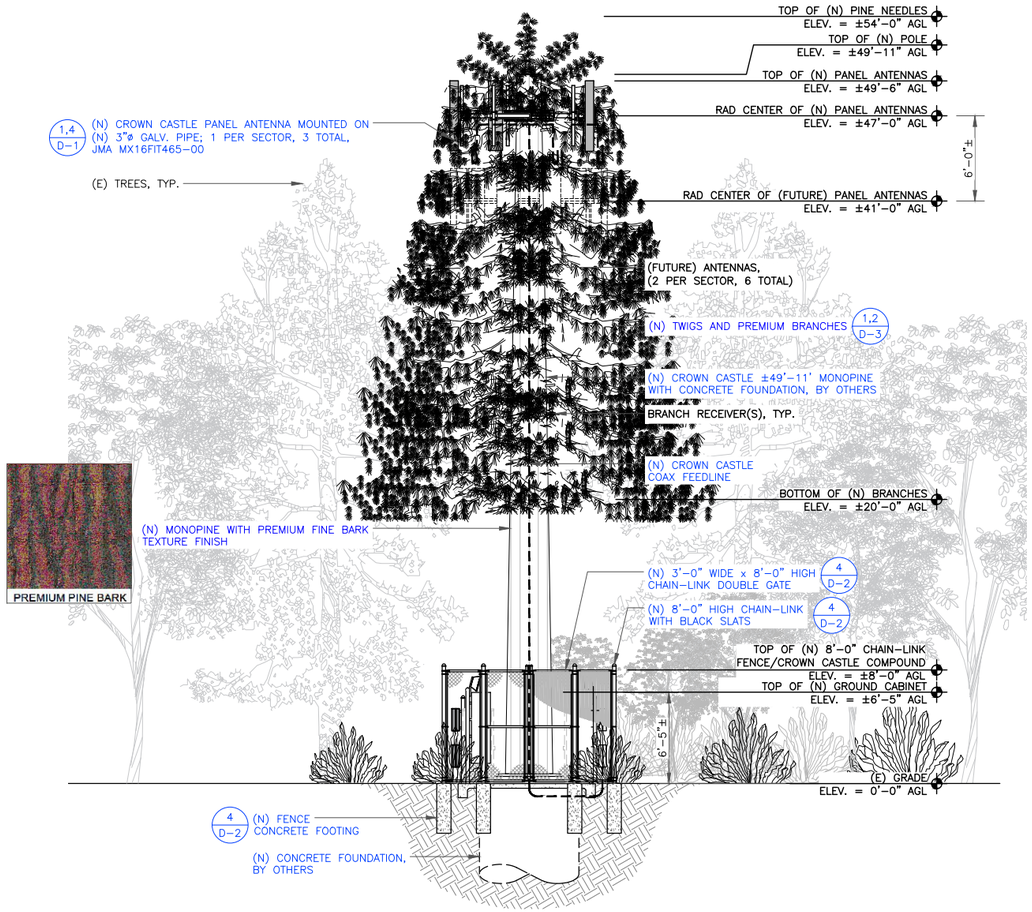
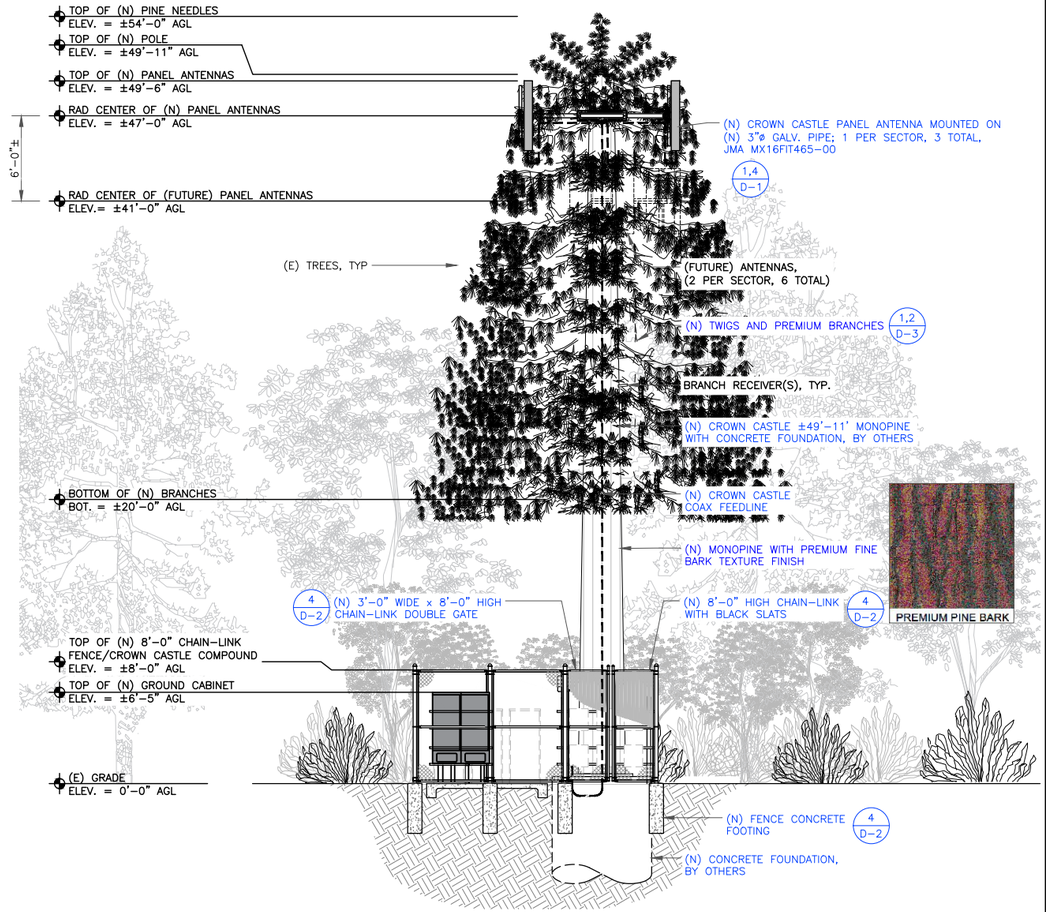
Site ID #



1 PROPOSED NORTHWEST ELEVATION

SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)



2 PROPOSED NORTHEAST ELEVATION

SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

NOTE:
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- NEW ANTENNAS TO BE PAINTED TO MATCH THE GREEN COLOR PALETTE OF THE TREE.

NOTE:
- NO GRADING PROPOSED
- NO NEW LANDSCAPING PROPOSED

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1 PARK PLACE PLACE
DUBLIN, CA 94568

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SITE NAME:
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NEW 49'-11" MONOPINE
(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
ELEVATIONS

SHEET NUMBER: A-6

REVISION: 4

NOTE:
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GENERAL NOTES:
1. THE WIRELESS COMMUNICATIONS FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1966 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES
2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION
3. NO GRADING WORK IS INCLUDED IN THIS SCOPE OF WORK ON THIS PAGE.
4. PROPERTY LINES SHOWN ARE PRELIMINARY AND DONE WITHOUT THE BENEFIT OF A SITE SURVEY
5. A SOILS TEST HAS NOT BEEN PERFORMED. THE ANALYSIS IS BASED ON PRESUMPTIVE SOILS PARAMETERS

APN: 142-21-084
ZONING: R1S-n3
AREA: 8.76 ACRES

EXISTING TREE:

NEW TREE:

STANFORD AVE

STANFORD RAN 32 / VENUE

(E) TREE, TYP.

(E) DRIPLINE OF TREE, TYP.

10'-0" BUFFER (ROOT ZONE), TYP.

TEMPORARAY TREE PROTECTION FENCING; TYP

(E) FIELD, TYP

(E) WALKWAY

(E) PROPERTY LINE, TYP.

RAIMUNDO WAY

TREE #	COMMON NAME	SCIENTIFIC NAME GENUS SPECIES	TUNK DIA. (IN.)	DRIPLINE RAIUS (FT)	PROPOSED ACTION
1	EUCALYPTUS	EUCALYPTUS SP.	2.4	6.2	-
2	EUCALYPTUS	EUCALYPTUS SP.	41.2	12	-
3	COAST LIVE OAK	QUERCUS AGRIFOLIA	13.6	4	-
4	EUCALYPTUS	EUCALYPTUS SP.	15.1	4.4	-
5	EUCALYPTUS	EUCALYPTUS SP.	32	9.3	-
6	EUCALYPTUS	EUCALYPTUS SP.	28.2	8.2	-

1 TREE DISPOSITION
SCALE: 8' 4' 0 8' 3/32"=1'-0" (FULL SIZE) 3/64"=1'-0" (11x17)

N

CROWN CASTLE
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DUBLIN, CA 94568

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HUB NAME:
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ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
0	03/30/2022	CT	90% CONSTRUCTION DWGS	CG
1	07/18/2022	MA	90% CONSTRUCTION DWGS	ML
2	06/14/2023	ES	90% CONSTRUCTION DWGS	BD
3	10/17/2023	JG	100% CONSTRUCTION DWGS	BD
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD

LEAF COMMUNICATIONS

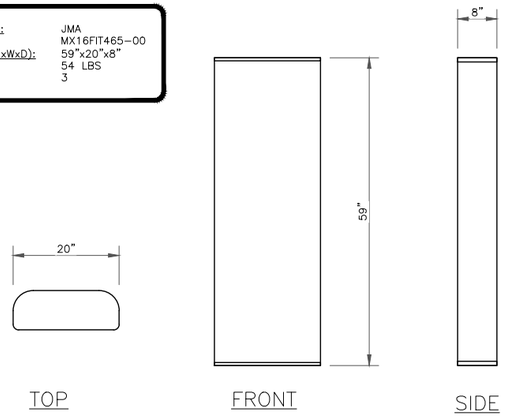
PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
TREE DISPOSITION

SHEET NUMBER: A-7

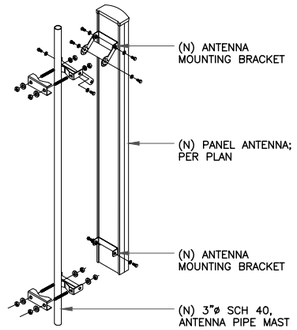
REVISION: 4

MANUFACTURER:	JMA
MODEL:	MX16FIT465-00
DIMENSIONS (HxWxD):	59"x20"x8"
WEIGHT:	54 LBS
QUANTITY:	3

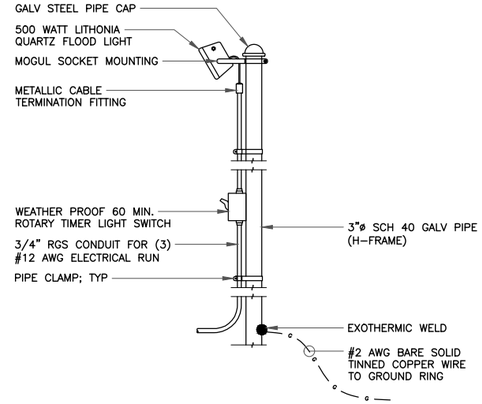


1 ANTENNA DETAIL
SCALE: N.T.S

NOTE:
ALL PIPES BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE



4 ANTENNA MOUNTING DETAIL
SCALE: N.T.S



7 WORK LIGHT DETAIL
SCALE: N.T.S

Radio 4467 44B77D 44B77G C

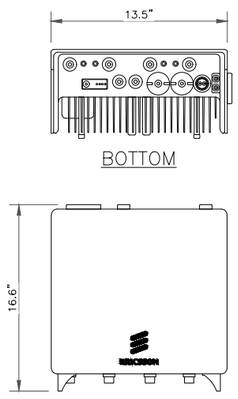
AT&T Input
- Priority : High
- Volumes : Medium (>5k)

- Frequency: 3700-3980MHz (B77D); 3450-3550MHz (B77G)
- Dual band
- 4TX/4RX per band
- Output Power 4x40W per band
- 200MHz IBW (B77D); 100MHz IBW (B77G)
- 2 x 10.1/25Gbps CPRI
- 22 liter, 24kg (tbd)
- -48 VDC 3-wire
- AISG RET support via RS-485 or RF connectors
- Optional fan for increased site flexibility
- 2 external alarm
- Convectional cooling
- IP 65, -40 to +55˚C

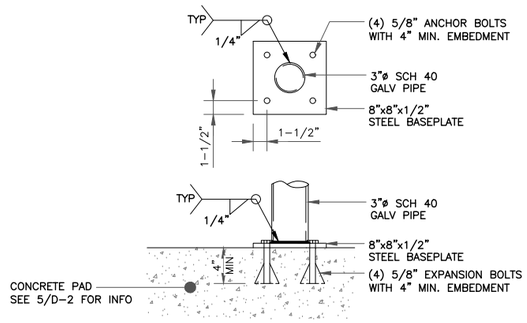
- Requires same TDD pattern in 3.45G and C-band

2 ERICSSON RRUS 4467
SCALE: N.T.S

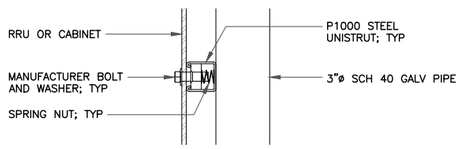
MANUFACTURER:	ERICSSON
MODEL:	4415 B2
DIMENSIONS, HxWxD:	16.6"x13.5"x5.9"
WEIGHT:	44.0 LBS
QUANTITY:	3



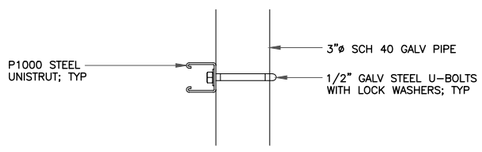
3 ERICSSON RRUS 4415
SCALE: N.T.S



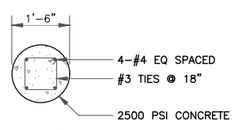
BASEPLATE DETAIL



UNISTRUT TO EQUIPMENT

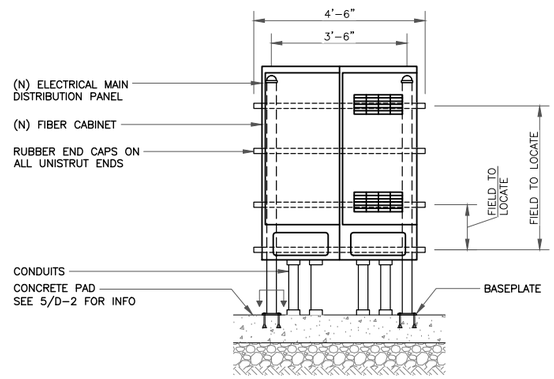


UNISTRUT TO PIPE

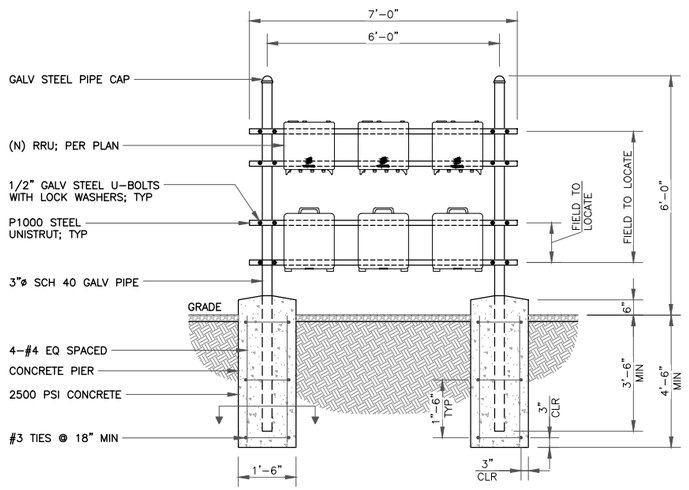


PIER SECTION

6 H-FRAME DETAIL
SCALE: N.T.S



UTILITY CABINET H-FRAME DETAIL



RRU MOUNTING H-FRAME DETAIL

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SAN CLEMENTE, CA 92673
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6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

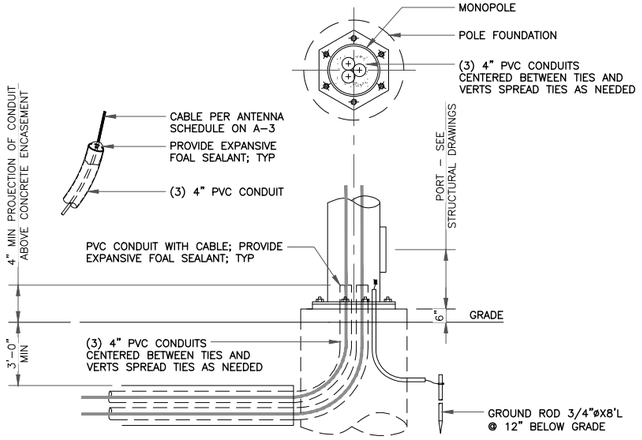
LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

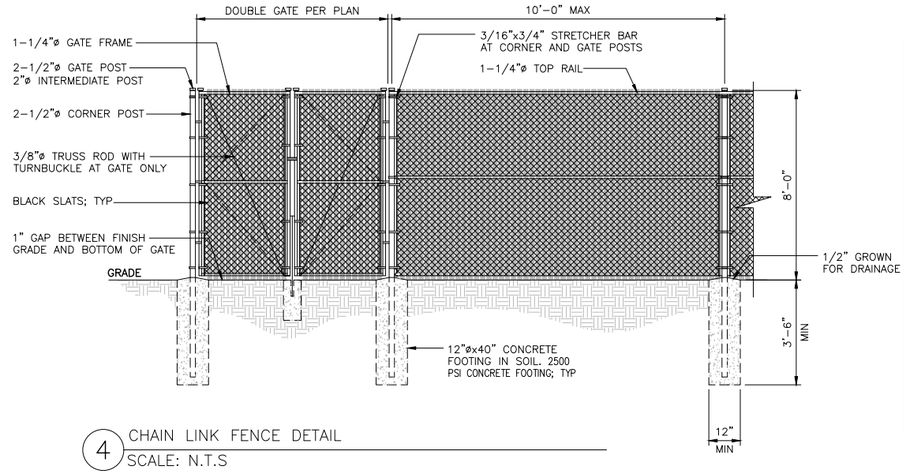
SHEET TITLE:
DETAILS

SHEET NUMBER: D-1

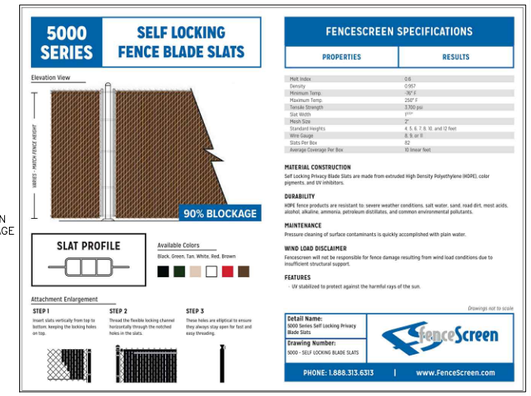
REVISION: 4

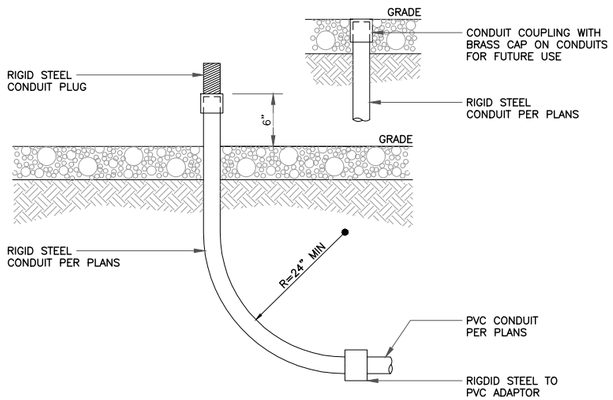


1 CABLE POLE ROUTING DETAIL
SCALE: N.T.S

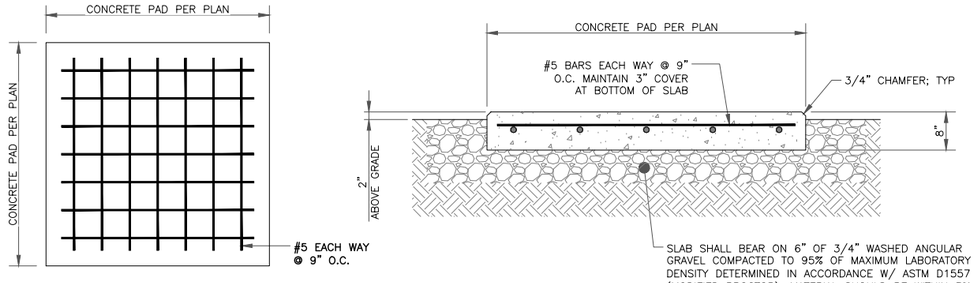


4 CHAIN LINK FENCE DETAIL
SCALE: N.T.S



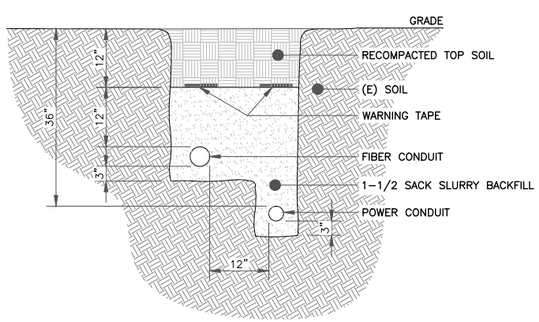


2 STUB-UP DETAIL
SCALE: N.T.S

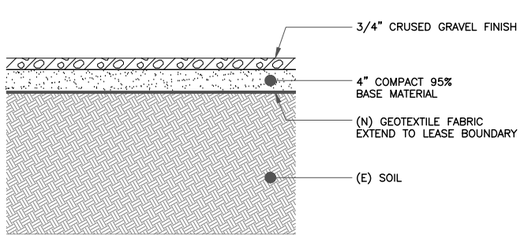


5 CONCRETE PAD DETAIL
SCALE: N.T.S

NOTES:
1. ALL DIMENSIONS SHOWN ARE MINIMUM CLEAR
2. GC TO INCLUDE REMOVAL OF SOILS
3. 1-1/2 SACK SLURRY FOR BACKFILL



3 POWER/FIBER UNDERGROUND TRENCH
SCALE: N.T.S



6 GRAVEL FINISH DETAIL
SCALE: N.T.S

9 ERICSSON RRUS 4449
SCALE: N.T.S

CROWN CASTLE
1 PARK PLACE PLACE
DUBLIN, CA 94568

LEAF COMMUNICATIONS
1000 CALLE CORDILLERA
SAN CLEMENTE, CA 92673
WWW.LEAFCOMM.COM
TEL: (949) 388-0192

SITE NAME:
STANFORD RAN 32 / VENUE
SITE ADDRESS:
805 RAIMUNDO WAY
STANFORD, CA 94305
SITE TYPE:
NEW 49'-11" MONOPINE
(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

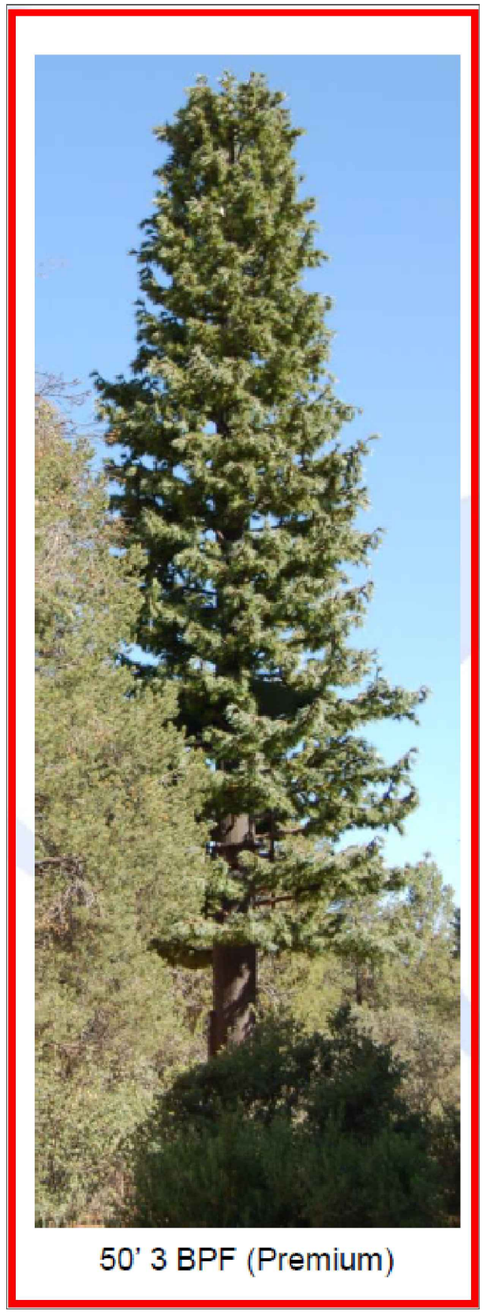
LEAF COMMUNICATIONS

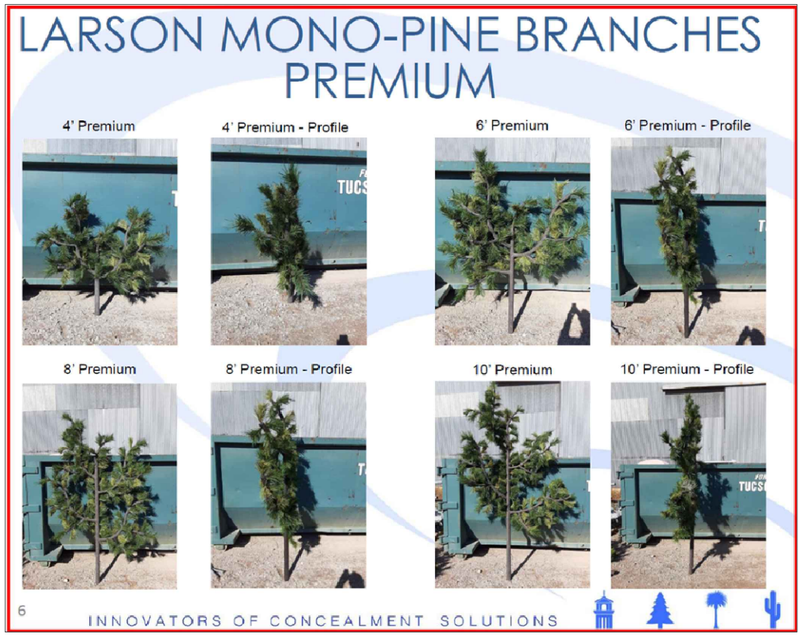
PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
DETAILS

SHEET NUMBER: D-2
REVISION: 4

1 TWIGS
SCALE: N.T.S





2 PREMIUM BRANCHES
SCALE: N.T.S

CROWN CASTLE
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ISSUED FOR:

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7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
DETAILS

SHEET NUMBER: D-3
REVISION: 4

STRUCTURAL NOTES

A. STRUCTURAL DESIGN CRITERIA

1. THE STRUCTURAL DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE (BUILDING CODE).
2. LIVE LOADS

SLAB ON GRADE	40 psf

3. WIND DESIGN DATA

ULTIMATE WIND SPEED	V = 92 mph
RISK CATEGORY	II
EXPOSURE CATEGORY	B

4. SEISMIC DESIGN DATA

RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	$I_E = 1.0$
MAPPED SPECTRAL ACCELERATION	$S_S = 2.060$
MAPPED SPECTRAL ACCELERATION	$S_1 = 0.737$
SITE CLASS	D
DESIGN SPECTRAL ACCELERATION	$S_{DS} = 1.648$
DESIGN SPECTRAL ACCELERATION	$S_{D1} = 0.835$
SEISMIC DESIGN CATEGORY	D

B. GENERAL

1. SPECIFIC NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
2. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. COORDINATE DIMENSION, ELEVATION, SLOPE, AND DRAINAGE REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS.
3. STANDARDS REFERENCED ON THE STRUCTURAL DRAWINGS REFER TO THE EDITION APPLICABLE UNDER THE APPLICABLE BUILDING CODE.
4. THE RESPONSIBILITY FOR THE REVIEW AND COORDINATION OF DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF RELATED CONSTRUCTION SHALL BEAR ON THE CONTRACTOR. DISCREPANCIES THAT EXIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER, PRIOR TO START OF RELATED CONSTRUCTION.
5. WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
6. EXISTING CONDITIONS SHALL BE VERIFIED BEFORE STARTING RELATED WORK. EXISTING CONDITIONS THAT ARE NOT REFLECTED ON THE STRUCTURAL DRAWINGS OR THAT DEVIATE FROM THE MAXIMUM OR MINIMUM DIMENSIONS INDICATED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. SUCH CONDITIONS MAY INCLUDE CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, PRESENCE OF GROUND WATER, UNCOVERED OR UNEXPECTED EXISTING CONSTRUCTION CONFIGURATIONS, ETC.
7. MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF APPLICABLE REGULATIONS AND THE BUILDING CODE AS AMENDED AND ADOPTED BY THE BUILDING OFFICIAL.
8. LOADS TO THE BUILDING AND/OR EXISTING STRUCTURES EXCEEDING THE LOADS INDICATED ON THE PLANS, OR ANY LOADS EXCEEDING 400 POUNDS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER.

C. TEMPORARY WORK AND SITE SAFETY

1. THE STRUCTURAL DRAWINGS SHOW THE REQUIREMENTS FOR THE COMPLETED STRUCTURE ONLY. TEMPORARY WORKS REQUIRED TO COMPLETE THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR FIELD VERIFICATION OF TEMPORARY AND ANCILLARY WORK.
2. THE RESPONSIBILITY FOR SAFETY IN AND AROUND THE JOBSITE SHALL BEAR ON THE CONTRACTOR. PROPER AND SAFE METHODS OF CONSTRUCTION SHALL BE EMPLOYED AT ALL TIMES INCLUDING THE STABILIZING OF INCOMPLETE STRUCTURES, FORMWORK, SHORING, RESHORING, FALSEWORK, PLATFORMS, SCAFFOLDING, BARRIERS, WALKWAYS, ETC. AND INCLUDING CONTROL OF THE INTENSITY, DURATION AND LOCATION OF CONSTRUCTION LOADS.
3. THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, UNDERPINNING, AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES AND STRUCTURES SHALL BEAR ON THE CONTRACTOR.
4. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON A STRUCTURE. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD INDICATED. WHERE THE STRUCTURE HAS NOT ATTAINED FINAL DESIGN STRENGTH, ADEQUATE SHORING AND OR BRACING SHALL BE INSTALLED.

D. FOUNDATIONS

1. A SOILS REPORT WAS NOT MADE AVAILABLE FOR THIS PROJECT.
2. THE ENGINEER OF RECORD HAS CLASSIFIED THE UNDISTURBED NATIVE SOILS TO BE CLASS 5 MATERIAL IN ACCORDANCE WITH TABLE 1806.2 OF THE BUILDING CODE, AN ALLOWABLE FOUNDATION BEARING PRESSURE OF 1,500 psf HAS BEEN ASSIGNED FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT.
3. IF THE BUILDING OFFICIAL OR CONTRACTOR SUSPECTS FILL MATERIAL, EXPANSIVE SOIL OR GEOLOGIC INSTABILITY UPON OBSERVATION OF THE FOUNDATION EXCAVATIONS, A GEOLOGICAL INVESTIGATION REPORT AND CONSTRUCTION DRAWINGS THAT ARE COMPLIANT WITH THE RECOMMENDATIONS OF THAT GEOLOGICAL INVESTIGATION REPORT MAY BE REQUIRED TO BE SUBMITTED FOR REVIEW BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION OF THE FOUNDATIONS.

E. ROOFING AND WEATHERPROOFING

1. THE CONTRACTOR SHALL GUARANTEE THE FINISHED INSTALLATION AS WEATHER TIGHT AND FREE-DRAINING UPON COMPLETION DIRECTLY TO THE BUILDING OWNER AND TO THE WIRELESS CARRIER.
2. WORK DONE ON PROPORIETARY WEATHERPROOFING SYSTEMS SHALL BE COMPLETED BY INSTALLERS TRAINED BY A QUALIFIED REPRESENTATIVE OF THE WEATHERPROOFING MANUFACTURER. TRAINING SHALL INCLUDE PROPER PROCEDURES AND TECHNIQUES FOR INSTALLTION.
3. THE CONTRACTOR SHALL INVESTIGATE ALL WEATHERPROOFING REQUIREMENTS FOR THE WORK SHOWN ON THESE DRAWINGS PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY POTENTIAL WEATHERPROOFING ISSUES.

F. REINFORCING STEEL

1. DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL BE PREFORMED IN ACCORDANCE WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
2. REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60, U.O.N.
3. U.N.O., REINFORCING BAR LAP SPLICES SHALL BE:

NW & LW CONCRETE	CLASS B (18" MIN)
MASONRY (CMU)	64 BAR DIA. (24" MIN)

4. DETAILS OF REINFORCEMENT SHALL COMPLY WITH THE PROVISIONS OF ACI 318.
5. WHERE HOOKS ARE ILLUSTRATED AS 90-DEGREE HOOKS, 180-DEGREE HOOKS MAY BE USED IN LIEU OF 90-DEGREE HOOKS.
6. REINFORCING BARS FOR CONCRETE SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM COVER:

CONCRETE CAST AGAINST EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH / WEATHER	
#5 OR SMALLER	1 ½"
#6 OR LARGER	2"
SLABS (#11 AND SMALLER)	¾"

7. VERTICAL WALL BARS SHALL BE ACCURATELY POSITIONED AND SECURED AT THE CENTER OF THE WALL, U.N.O.

G. REINFORCED CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE BUILDING CODE AND TO THE PROVISIONS OF ACI 318.
2. THE STRUCTURAL DESIGN OF FOOTINGS SHOWN ON THESE DRAWINGS IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, f'_c, NOT MORE THAN 2,500 psi.
3. WATER MAY BE ADDED TO CONCRETE ON-SITE TO OBTAIN SPECIFIED SLUMPS PROVIDED THAT IT IS ADDED WITHIN ONE HOUR OF BATCHING AND SITE-ADDED WATER IS SPECIFIED ON THE BATCH REPORT. SITE-ADDED WATER SHALL NOT COMPROMISE THE STRENGTH OR SLUMP OF THE CONCRETE.
4. CONCRETE SHALL NOT BE PLACED BEYOND 1-1/2 HOURS FOLLOWING BATCHING.
5. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER U.O.N.
6. WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED AND ROUGHENED TO A MINIMUM AMPLITUDE OF ¼-INCH. A CONCRETE BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACE.
7. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C 94.
8. CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR II, LOW ALKALI.
9. FLYASH SHALL CONFORM TO ASTM C 618, CLASS F. FLYASH SHALL BE LIMITED TO NO MORE THAN 20% OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS IN THE CONCRETE, U.O.N.
10. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33.
11. NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 pcf.
12. MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS, MAXIMUM SLUMPS, AND MAXIMUM WATER/CEMENT RATIOS SHALL BE AS FOLLOWS:

DESCRIPTION	MIN 28 DAY f'_c	SLUMP	MAX W/C RATIO
SHALLOW FOUNDATIONS	3,500 psi	4" +/- 1"	0.52
SLABS ON GRADE	3,000 psi	4" +/- 1"	0.45

13. SLUMPS INDICATED ARE PRIOR TO PLASTICIZER ADDITIVES.
14. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.

H. WELDING

1. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY (AWS) D1.1. ELECTRODE FILLER MATERIAL SHALL BE A MINIMUM OF E70XX U.N.O.
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. WELDING ELECTRODES FOR THE SHIELDED METAL-ARC WELDING (S.M.A.W.) PROCESS AND WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 "SPECIFICATION FOR CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING."
4. WELDING ELECTRODES FOR THE FLUX CORED ARC WELDING (F.C.A.W.) PROCESS AND WELDING ELECTRODES SHALL CONFORM TO AWS A5.20 "SPECIFICATION FOR CARBON STEEL ELECTRODES FOR FLUX CORED ARC WELDING."
5. WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE STRESSES AND DISTORTION.

I. STRUCTURAL STEEL

1. STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 22 OF THE BUILDING CODE, AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. STRUCTURAL STEEL STRENGTHS AND GRADES SHALL BE AS FOLLOWS, U.N.O.

DESCRIPTION	F_Y	ASTM
ANGLES, CHANNELS, & PLATES	36 ksi	A36
PIPE	35 ksi	A53 GR B
ROUND HSS	42 ksi	A500 GR B
SQUARE AND RECTANGULAR HSS	46 ksi	A500 GR B
W SHAPES	50 ksi	A992

4. THREADED RODS SHALL CONFORM TO ASTM F1554 GR.55, UNO. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A563, GR A HEX. WHERE ANCHOR ROD DIAMETER IS GREATER THAN 1 1/2" NUTS SHALL BE HEAVY HEX.
5. BOLTS SHALL CONFIRM TO ASTM A325N. OTHER BOLTS SHALL CONFORM TO ASTM A307 WHERE NOTED. NUTS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX GRADE C CONFORMING TO ASTM A 563.
6. TIGHTEN ASTM A325N BOLTS TO "SNUG-TIGHT" CONDITION PER AISC SPECIFICATION FOR STRUCTURAL JOINTS.
7. EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123, G60. GALVANIZED SURFACES DAMAGED BY SUBSEQUENT WELDING AND OTHER WORK SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A 780.

J. POST-INSTALLED EXPANSION ANCHORS

1. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
2. POST-INSTALLED EXPANSION ANCHORS SHALL BE AS FOLLOWS, U.N.O.

MATERIAL	ANCHOR
NW & LW CONCRETE	HILTI KB-TZ2 (ESR-4266)
SOLID GROUTED CMU	HILTI KB-TZ2 (ESR-4561)

3. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
4. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S PUBLISHED EVALUATION REPORT. HOLES SHALL BE CLEANED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.
5. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
6. WHEN INSTALLING ANCHORS INTO PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. AVOID CUTTING OR DAMAGING THE TENDONS.

STRUCTURAL ABBREVIATIONS

THE STRUCTURAL DRAWINGS MAY INCLUDE THE FOLLOWING STANDARD ABBREVIATIONS:

(E)	EXISTING
(N)	NEW
(P)	PROPOSED
B.N.	BOUNDARY NAILING
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
CFS	COLD-FORMED STEEL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
CTSK	COUNTERSUNK
DBL	DOUBLE
Do	DITTO/DO OVER
E.N.	EDGE NAILING
EA	EACH
EQUIP	EQUIPMENT
F.N.	FIELD NAILING
FRP	FIBER-REINFORCED POLYMER
FTG	FOOTING
GALV	GALVANIZED
GLB	GLULAM BEAM / MEMBER
HGR	HANGER
HORIZ	HORIZONTAL
HSS	HOLLOW STEEL SECTION
INT	INTERIOR
k	KIP(S) = 1,000 lb
lb	POUND(S)
MFR	MANUFACTURER
MTL	METAL
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND / MIRROR
OC	ON CENTER
PL	PLATE
psf	POUNDS PER SQUARE FOOT
P-T	POST-TENSIONED
REINF	REINFORCEMENT
PSL	PARALLEL STRAND LUMBER
REQ'D	REQUIRED
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
THK	THICK
TPL	TRIPLE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH

SPECIAL INSPECTION AND TESTING PROGRAM

A. GENERAL

1. NOTICE TO THE APPLICANT, OWNER, OWNER'S AGENT, ARCHITECT OR ENGINEER OF RECORD: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CONSTRUCTION CODES.
2. NOTICE TO THE CONTRACTOR, BUILDER, INSTALLER, SUBCONTRACTOR OR OWNER-BUILDER: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE THAT YOU ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CONSTRUCTION CODES.
3. THE OWNER OR OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY SPECIAL INSPECTION AND TESTING AGENCIES TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
4. SPECIAL INSPECTION SHALL BE PERFORMED IN ADDITION TO INSPECTION BY THE BUILDING OFFICIAL AS REQUIRED IN SECTION 110 OF THE BUILDING CODE. SPECIAL INSPECTION SHALL NOT BE A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL.
5. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION OR TESTING IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE OBSERVED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS AND SECTION 1704 OF THE BUILDING CODE, IT SHALL BE THE SPECIAL INSPECTION AGENCY'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT THE REQUIRED WORK IS INSPECTED.
6. THE SPECIAL INSPECTION AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. EXCEPTIONS:
   A. WHEN THIS REQUIREMENT FOR AGENCY APPROVAL IS WAIVED BY THE BUILDING OFFICIAL.
7. THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR THE TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
8. PRIOR TO THE START OF CONSTRUCTION, THE SPECIAL INSPECTION AND TESTING AGENCIES SHALL SUBMIT DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
9. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE OWNER (OR OWNER'S DESIGNATED AGENT) AND BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTION OR TESTING AGENCIES AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
11. WORK REQUIRING SPECIAL INSPECTION OR TESTING THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE AT THE CONTRACTOR'S EXPENSE.

B. REQUIRED REPORTS:

1. THE SPECIAL INSPECTION AGENCY SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
2. SPECIAL INSPECTION REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS, OR WAS NOT PERFORMED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
3. THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. MATERIAL TESTING REPORTS SHALL INDICATE WHETHER THE TESTED MATERIALS CONFORM, OR DO NOT CONFORM, TO THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS.
5. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
6. IF DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK.
7. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS, MATERIAL TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON, PRIOR TO THE START OF WORK, BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL.

C. CONTINUOUS AND PERIODIC SPECIAL INSPECTIONS:

1. WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME INSPECTION OF THE WORK.
2. WHERE PERIODIC SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC INSPECTION IS INDICATED. AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY.

D. OFF-SITE FABRICATION:

1. SPECIAL INSPECTION AND TESTING IS REQUIRED FOR THE OFF-SITE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS AND REINFORCING ASSEMBLIES, UNLESS THE FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR.
2. AN APPLICATION FOR OFF-SITE FABRICATION MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO COMMENCING ANY FABRICATION WORK REQUIRING SPECIAL INSPECTION OR TESTING.
3. A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE SUBMITTED BY THE FABRICATOR TO THE SPECIAL INSPECTION OR TESTING AGENCY PRIOR TO FABRICATION, AND SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.
4. SPECIAL INSPECTION SHALL INCLUDE VERIFICATION THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
5. SPECIAL INSPECTION SHALL INCLUDE REVIEW OF THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE REQUIREMENTS OF THE BUILDING CODE.

STATEMENT OF SPECIAL INSPECTIONS AND TESTING

DESCRIPTION OF TYPE OF INSPECTION REQUIRED	CONTIN-UOUS	PERIODIC	FOOT-NOTE
POST-INSTALLED ANCHORS			
INSTALLATION OF EXPANSION ANCHORS		X	1

FOOTNOTES FOR STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTION FOR POST-INSTALLED ANCHORS SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THE EVALUATION APPROVAL FOR THE SPECIFIC PRODUCT.

CROWN CASTLE
1 PARK PLACE PLACE
DUBLIN, CA 94568

LEAF COMMUNICATIONS
1000 CALLE CORDILLERA
SAN CLEMENTE, CA 92673
WWW.LEAFCOMM.COM
TEL: (949) 388-0192

SITE NAME:
STANFORD RAN 32 / VENUE
SITE ADDRESS:
805 RAIMUNDO WAY
STANFORD, CA 94305
SITE TYPE:
NEW 49'-11" MONOPINE
(NEW FACILITY)
HUB NAME:
ECH BUILDING
ADDRESS:
253 BONAIR SIDING, STANFORD
CA 94305
COORDINATES:
37.429290/-122.156116

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
4	01/16/2024	PS	100% CONSTRUCTION DWGS	BD
5	01/29/2024	MA	100% CONSTRUCTION DWGS	BD
6	04/10/2024	JDJ	100% CONSTRUCTION DWGS	BD
7	06/13/2024	PS	100% CONSTRUCTION DWGS	BD
8	06/19/2024	JDJ	100% CONSTRUCTION DWGS	BD
9	06/21/2024	JDJ	100% CONSTRUCTION DWGS	AT

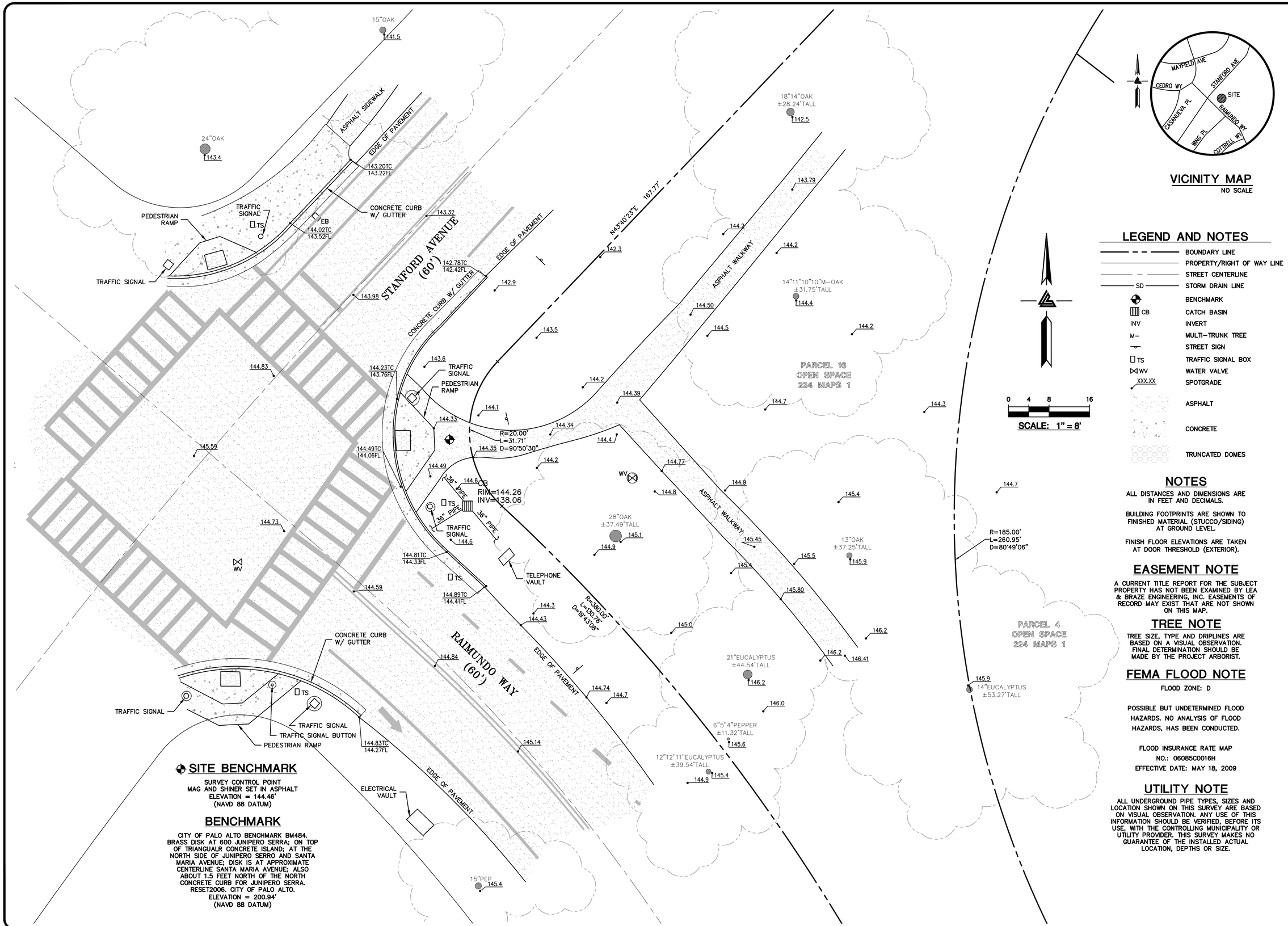
LEAF COMMUNICATIONS

PRELIMINARY CONSTRUCTION DRAWINGS

SHEET TITLE:
STRUCTURAL NOTES & SPECIAL INSPECTION

SHEET NUMBER: S-1

REVISION: 4



VICINITY MAP
NO SCALE

LEGEND AND NOTES

- BOUNDARY LINE
- PROPERTY/RIGHT OF WAY LINE
- STREET CENTERLINE
- SD — STORM DRAIN LINE
- BENCHMARK
- CB — CATCH BASIN
- INV — INVERT
- M— — MULTI—TRUNK TREE
- STREET SIGN
- TS — TRAFFIC SIGNAL BOX
- WV — WATER VALVE
- XXX.XX — SPOTGRADE
- ASPHALT
- CONCRETE
- TRUNCATED DOMES

NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS.

BUILDING FOOTPRINTS ARE SHOWN TO FINISHED MATERIAL (STUCCO/SIDING) AT GROUND LEVEL.

FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR).

EASEMENT NOTE

A CURRENT TITLE REPORT FOR THE SUBJECT PROPERTY HAS NOT BEEN EXAMINED BY LEA & BRAZE ENGINEERING, INC. EASEMENTS OF RECORD MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.

TREE NOTE

TREE SIZE, TYPE AND DRIPLINES ARE BASED ON A VISUAL OBSERVATION. FINAL DETERMINATION SHOULD BE MADE BY THE PROJECT ARBORIST.

FEMA FLOOD NOTE

FLOOD ZONE: D

POSSIBLE BUT UNDETERMINED FLOOD HAZARDS. NO ANALYSIS OF FLOOD HAZARDS, HAS BEEN CONDUCTED.

FLOOD INSURANCE RATE MAP
NO.: 06085C0016H
EFFECTIVE DATE: MAY 18, 2009

UTILITY NOTE

ALL UNDERGROUND PIPE TYPES, SIZES AND LOCATION SHOWN ON THIS SURVEY ARE BASED ON VISUAL OBSERVATION. ANY USE OF THIS INFORMATION SHOULD BE VERIFIED, BEFORE ITS USE, WITH THE CONTROLLING MUNICIPALITY OR UTILITY PROVIDER. THIS SURVEY MAKES NO GUARANTEE OF THE INSTALLED ACTUAL LOCATION, DEPTHS OR SIZE.

SITE BENCHMARK

SURVEY CONTROL POINT
MAG AND SHINER SET IN ASPHALT
ELEVATION = 144.46'
(NAVD 88 DATUM)

BENCHMARK

CITY OF PALO ALTO BENCHMARK BM484. BRASS DISK AT 600 JUNIPERO SERRA; ON TOP OF TRIANGUALR CONCRETE ISLAND; AT THE NORTH SIDE OF JUNIPERO SERRO AND SANTA MARIA AVENUE; DISK IS AT APPROXIMATE CENTERLINE SANTA MARIA AVENUE; ALSO ABOUT 1.5 FEET NORTH OF THE NORTH CONCRETE CURB FOR JUNIPERO SERRA. RESET2006. CITY OF PALO ALTO.
ELEVATION = 200.94'
(NAVD 88 DATUM)

LICENSED LAND SURVEYOR
GREGORY F. BRAZE
No. 7823
STATE OF CALIFORNIA

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS I LAND SURVEYORS

MAIN OFFICE:
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(510) 887-4086

REGIONAL OFFICES:
ROSEVILLE
PLEASANTON
SAN JOSE
SAN LUIS OBISPO

WWW.LEABRAZE.COM

805 RAIMUNDO WAY (RAN32)
STANFORD
CALIFORNIA

APN:142-21-084

SANTA CLARA COUNTY

PARTIAL TOPOGRAPHIC SURVEY

REVISIONS	BY
–	–
–	–
–	–
–	–

JOB NO:	2241012
DATE:	6-3-24
SCALE:	1"=8'
BNDY BY:	KR
FIELD BY:	AO
DRAWN BY:	SM
SHEET NO:	SU1

1 OF 1 SHEETS