



# Courtesy Notice

Dear Campbell Resident,

April 13, 2024

We are notifying you that the Planning Division of the Community Development Department of the City of Campbell has received an application for the following project:

**Project Address:** 595 Millich Drive

**Zoning | Area Plan:** P-D

**Neighborhood Association(s):** Campbell Community Center Neighborhood Group

**Council District:** 3

**File No.:** PLN-2024-54

**APN:** 305-15-011

**Applicant:** New Cingular Wireless PCS, LLC

**Property Owner:** Harman Management Corp

**Application Type:** Conditional Use Permit

**Project Planner:** Nishant Seoni, Contract Associate Planner

**Email Contact:** nishants@campbellca.gov

**Project Description:**

To construct a new telecommunications facility with 21 antennas, spread over 3 sectors, and associated power and screening equipment on the roof of an existing 22,117 square foot office building.

If you would like to find out more information regarding the proposed project, please view the project plans using the QR code below or contact the Project Planner. The City will send you another notice before the City makes a decision regarding approval of the project.

Before a decision is reached you will receive a formal notice providing another opportunity for public comment.



- City of Campbell -  
Community Development Department  
70 N. First Street, Campbell CA 95008  
(408)866-2140 | [planning@campbellca.gov](mailto:planning@campbellca.gov)

**Note:** Applications may change after initial application submittal. To view the project plans, please scan the QR code.

\*\*Asistencia en Español disponible,  
Simplemente marque (408) 866-2140 y pida traducción en Español





**SITE NUMBER:** CBL00140  
**SITE NAME:** 595 MILLICH  
**SITE TYPE:** FRP SCREENING / OUTDOOR EQUIPMENT  
**ADDRESS:** 595 MILLICH DRIVE  
 CAMPBELL, CA 95008

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**APPLICANT:**

5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

**VENDOR:**

P. MARSHALL & ASSOCIATES  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE. 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

**SITE INFORMATION:**

**CBL00140**

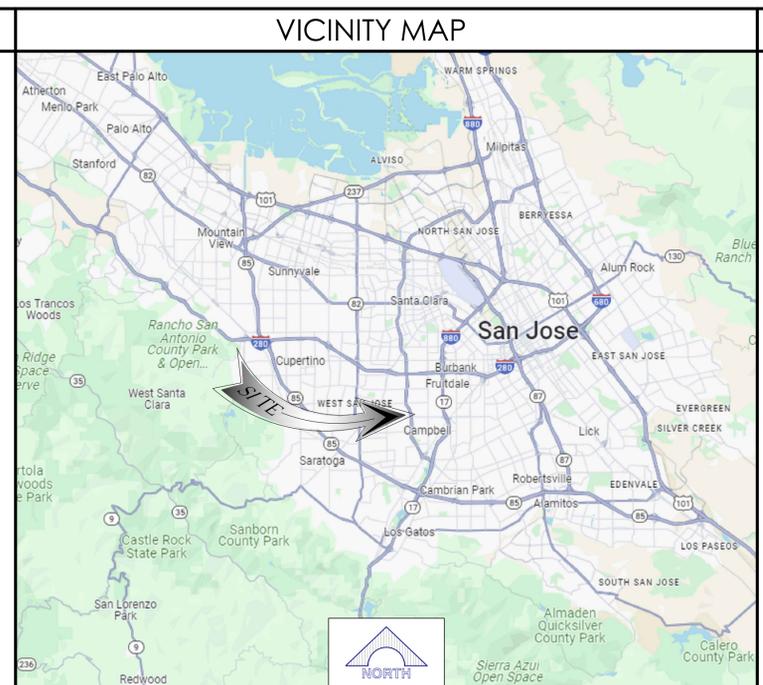
595 MILLICH

595 MILLICH DRIVE  
CAMPBELL, CA 95008

FA#: 16054004  
PAGE#: MRSFR099348  
PT#: 3701A17H8W  
USID#: 329301

**PROJECT TEAM**

<b>APPLICANT / LESSEE:</b> AT&T 5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583	<b>RFDS VERSION:</b> PRELIMINARY <b>DATE CREATED:</b> 11/16/2023 <b>DATE UPDATED:</b> 12/22/2023
<b>CONSTRUCTION MANAGER:</b> DAN RICO PROFESSIONAL - TECH VENDOR MANAGEMENT EMAIL: DR695V@ATT.COM	<b>PROJECT MANAGER:</b> CENTERLINE COMMUNICATIONS CONTACT: ALLYSON POE EMAIL: APOE@CLINELLC.COM
<b>ARCHITECTURE &amp; ENGINEERING MANAGER:</b> P.MARSHALL & ASSOCIATES, LLC (PM&A) CONTACT: STEVEN M. RAMON EMAIL: SRAMON@PMASS.COM	
<b>LEASING MANAGER:</b> CENTERLINE COMMUNICATIONS CONTACT: STEPHANIE VICK EMAIL: SVICK@CLINELLC.COM PH: (858) 774-5191	<b>RF ENGINEER:</b> CONTACT: EDWIN AVILES EMAIL: EA5477@ATT.COM PH: (909) 997-9917



**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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- CALIFORNIA BUILDING STANDARDS CODE: 2022 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2023.  
 PART 1 - CALIFORNIA ADMINISTRATIVE CODE  
 PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2021 INTERNATIONAL BUILDING CODE  
 PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE  
 PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2020 NATIONAL ELECTRICAL CODE  
 PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2021 UNIFORM MECHANICAL CODE  
 PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2021 UNIFORM PLUMBING CODE  
 PART 6 - CALIFORNIA ENERGY CODE  
 PART 7 - VACANT  
 PART 8 - CALIFORNIA HISTORICAL BUILDING CODE  
 PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2021 INTERNATIONAL FIRE CODE  
 PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2021 INTERNATIONAL EXISTING BUILDING CODE  
 PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC; ALSO KNOWN AS CALGREEN)  
 PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
- ANSI/TIA-222 (REV H)
- 2021 NFPA 101, LIFE SAFETY CODE
- 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
- 2022 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

**PROJECT DESCRIPTION**

INSTALLATION OF AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

**ANTENNA SOW:**

- INSTALL (6) QD6612-2 PANEL ANTENNAS, TYP. 2 PER SECTOR
- INSTALL (3) AIR6419 B77G PANEL ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (3) AIR6419 B77D PANEL ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (3) RRUS 4490 B5/B12A NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (3) RRUS 4890 B25/B66 NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (3) RRUS 4478 B14 NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (3) DC9 SURGE SUPPRESSORS NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (9) NEW #6 AWG DC POWER TRUNKS WITHIN NEW CONDUITS
- INSTALL (3) NEW FIBER TRUNKS WITHIN NEW CONDUITS

**EQUIPMENT SOW:**

- INSTALL (1) 30'-0" x 15'-0" FRP SCREENING
- INSTALL (1) 18'-6" x 8'-0" FRP SCREENING
- INSTALL (1) 15'-0" x 15'-0" FRP SCREENING
- INSTALL (1) STEEL GRATE PLATFORM
- INSTALL (1) VERTIV 512 DCPW W/ (16) RECTIFIERS AND (2) 190AH BATTERY STRINGS (11-RECTIFIERS REQUIRED)
- INSTALL (1) PURCELL CABINET W/ (2) 6648 BBU, (1) 6673 BBU, AND (1) SIAD
- INSTALL (1) DC50 SURGE SUPPRESSOR BOX
- INSTALL (1) 200 AMP PPC
- INSTALL (1) GPS ANTENNA
- INSTALL (1) SERVICE LIGHT
- INSTALL (2) H-FRAME
- INSTALL (1) CIENA AND (1) HOFFMAN BOX
- INSTALL (1) 200AMP BREAKER WITHIN (E) SWITCH GEAR LOCATED (E) BASEMENT
- INSTALL (1) SUB-METER WITHIN (E) BASEMENT
- INSTALL (1) GENERATOR CAMLOCK AT GRADE LEVEL
- INSTALL (4) BOLLARDS AT GRADE
- INSTALL (1) 30KW GENERATOR MOUNTED ON (P) CONCRETE PAD LOCATED AT GRADE
- INSTALL (1) 10'-0"x4'-0" CONCRETE PAD AT GRADE
- INSTALL (1) 2"Ø POWER AND (1) 2"Ø FIBER CONDUIT ROUTED FROM (P) P.O.C. UP STACKED ROOF TOWARDS AT&T LEASE AREA LOCATED ON ROOFTOP APPROX. LENGTH: 100'
- INSTALL (1) 2"Ø POWER CONDUIT FOR GENERATOR

**DESIGN RECORD:**

REV.	DATE	DESCRIPTION	ISSUED FOR 90%SDS	ISSUED FOR 95%SDS	REV. 95%SDS
INT.					
	01/04/24				
A	03/08/24				
B					
C	03/29/24				

**SITE INFORMATION**

<b>PROPERTY OWNER:</b> HARMAN MANAGEMENT CORPORATION 5544 GREEN STREET MURRAY, UT 84123 CONTACT: BRENTON JACKSON PHONE: (408) 221-6387	<b>POWER AGENCY:</b> TBD PH: TBD TELEPHONE AGENCY: AT&T
<b>JURISDICTION:</b> A.P.N.: CURRENT ZONING: EXISTING USE: PROPOSED USE:	CITY OF CAMPBELL 305-15-011 PD (PLANNED DEVELOPMENT) GENERAL COMMERCIAL GENERAL COMMERCIAL, COMMUNICATIONS FACILITY
<b>LATITUDE (NAD 83):</b> <b>LONGITUDE (NAD 83):</b>	37.295533° 37° 17' 43.9" N -121.960117° -121° 57' 36.4" W
<b>ACCESSIBILITY REQUIREMENTS:</b> FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CFC2022, SECTION 1207 (LIMITED ACCESS SPACE)	
<b>OCCUPANCY GROUPS:</b> <b>TYPE OF CONSTRUCTION:</b>	U II-B

**GENERAL CONTRACTOR NOTES**

DO NOT SCALE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

**GENERAL NOTES**

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 ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

**STATEMENTS**

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

**DRIVING DIRECTIONS**

**FROM:** AT&T CORPORATE OFFICES  
5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583

**TO:** 595 MILLICH DRIVE  
CAMPBELL, CA 95008

**PROFESSIONAL STAMP:**

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

**SHEET TITLE:** T-1

**SHEET NAME:** TITLE SHEET

GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- 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.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'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.
- 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.
- 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.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 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.
- 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.
- 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.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS 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.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

APPLICABLE CODES, REGULATIONS AND STANDARDS:

- SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
  - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, 15TH EDITION
  - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
  - 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.
  - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
  - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
  - EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
  - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
  - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
  - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
  - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
  - 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.

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
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BTCW.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
B/U	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
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

ABBREVIATIONS:

FDN.	FOUNDATION	SCH.	SCHEDULE
F.O.C.	FACE OF CONCRETE	SHT.	SHEET
F.O.M.	FACE OF MASONRY	SIM.	SIMILAR
F.O.S.	FACE OF STUD	SPEC.	SPECIFICATIONS
F.O.W.	FACE OF WALL	SQ.	SQUARE
F.S.	FINISH SURFACE	S.S.	STAINLESS STEEL
FT.( ' )	FOOT (FEET)	STD.	STANDARD
FTG.	FOOTING	STL.	STEEL
G.	GROWTH (CABINET)	STRUC.	STRUCTURAL
GA.	GAUGE	TEMP.	TEMPORARY
GI.	GALVANIZE(D)	THK.	THICK(NESS)
G.F.I.	GROUND FAULT CIRCUIT	T.N.	TOE NAIL
INTERRUPTER		T.O.A.	TOP OF ANTENNA
GLB. (GLU-LAM)	GLUE LAMINATED BEAM	T.O.C.	TOP OF CURB
GPS	GLOBAL POSITIONING SYSTEM	T.O.F.	TOP OF FOUNDATION
GRND.	GROUND	T.O.P.	TOP OF PLATE (PARAPET)
HDR.	HEADER	T.O.S.	TOP OF STEEL
HGR.	HANGER	T.O.W.	TOP OF WALL
HT.	HEIGHT	TYP.	TYPICAL
ICGB.	ISOLATED COPPER GROUND BUS	U.G.	UNDER GROUND
IN. ( " )	INCH(ES)	U.L.	UNDERWRITERS LABORATORY
INT.	INTERIOR	U.N.O.	UNLESS NOTED OTHERWISE
LB.(#)	POUND(S)	V.I.F.	VERIFY IN FIELD
L.B.	LAG BOLTS	W	WIDE (WIDTH)
L.F.	LINEAR FEET (FOOT)	w/	WITH
L.	LONG(ITUDINAL)	WD.	WOOD
MAS.	MASONRY	W.P.	WEATHERPROOF
MAX.	MAXIMUM	WT.	WEIGHT
M.B.	MACHINE BOLT	Ⓢ	CENTERLINE
MECH.	MECHANICAL	P	PLATE, PROPERTY LINE
MFR.	MANUFACTURER		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MTL.	METAL		
(N)	NEW		
NO.(#)	NUMBER		
N.T.S.	NOT TO SCALE		
O.C.	ON CENTER		
OPNG.	OPENING		
P/C	PRECAST CONCRETE		
PCS	PERSONAL COMMUNICATION		
PLY.	PLYWOOD		
PPC	POWER PROTECTION CABINET		
PRC	PRIMARY RADIO CABINET		
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.	REINFORCEMENT(ING)		
REQ'D/	REQUIRED		
RGS.	RIGID GALVANIZED STEEL		

SYMBOLS LEGEND:

	BLDG. SECTION		GROUT OR PLASTER
	WALL SECTION		(E) BRICK
	DETAIL		(E) MASONRY
	ELEVATION		CONCRETE
	DOOR SYMBOL		EARTH
	WINDOW SYMBOL		GRAVEL
	TILT-UP PANEL MARK		PLYWOOD
	PROPERTY LINE		SAND
	CENTERLINE		PLYWOOD
	ELEVATION DATUM	(E) Steel symbol"/>	(E) STEEL
	GRID/COLUMN LINE		MATCH LINE
	KEYNOTE, DIMENSION ITEM		GROUND CONDUCTOR
	KEYNOTE, CONSTRUCTION ITEM		OVERHEAD SERVICE CONDUCTORS
	WALL TYPE MARK		TELEPHONE CONDUIT
	ROOM NAME ROOM NUMBER		POWER CONDUIT
			COAXIAL CABLE
			CHAIN LINK FENCE
			WOOD FENCE
			(N) ANTENNA
			(N) RRU
			(N) DC SURGE SUPPRESSION
			(F) ANTENNA
			(F) RRU
			(E) EQUIPMENT

APPLICANT:



5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



P. MARSHALL & ASSOCIATES  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE. 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CBL00140**

595 MILLICH

595 MILLICH DRIVE  
CAMPBELL, CA 95008

FA#: 16054004  
PACE#: MRSFR099348  
PT#: 3701A17H8W  
USID#: 329301

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	BH	SMR
A	01/04/24	ISSUED FOR 90%SDS			
B	03/08/24	ISSUED FOR 95%SDS			
C	03/29/24	REV. 95%SDS			

PROFESSIONAL STAMP:

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SHEET TITLE:

**GN-1**

SHEET NAME:

**GENERAL NOTES**

COMPLIANCE WITH CFC 2022 SECTION 1207 - OUTDOOR BATTERY SYSTEMS

**1207.4 GENERAL INSTALLATIONS REQUIREMENTS**

**1207.4.1 ELECTRICAL DISCONNECTS:**

IN ACCORDANCE WITH SECTION 1207.4.1, THE ESS IS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS FACILITY AND WILL HAVE ELECTRICAL DISCONNECT SIGNAGE IN ACCORDANCE WITH NFPA 76. SEE EMERGENCY SHUT DOWN AND BACK UP BATTERY DISCONNECT SIGNAGE ON SITE SIGNAGE SHEET IN THIS DRAWING SET.

**1207.4.2 WORKING CLEARANCES:**

IN ACCORDANCE WITH SECTION 1207.4.2, THE ESS WILL MAINTAIN PROPER WORKING CLEARANCES AS PRESCRIBED BY THE CALIFORNIA ELECTRICAL CODE AND THE MANUFACTURER'S INSTRUCTIONS.

**1207.4.4 SEISMIC AND STRUCTURAL DESIGN:**

IN ACCORDANCE WITH SECTION 1207.4.4, THE ESS WILL NOT EXCEED THE FLOOR LOADING LIMITATION OF THE BUILDING, REFERENCE PASSING STRUCTURAL ANALYSIS REPORT UNDER SEPARATE COVER.

**1207.4.5 VEHICLE IMPACT PROTECTION:**

THE ESS CABINETS ARE LOCATED IN AN UNOCCUPIED AND UNMANNED OUTDOOR TELECOMMUNICATIONS FACILITY AND IS NOT SUBJECT TO IMPACT BY VEHICLES. SHOULD THE ESS BE SUBJECT TO POTENTIAL IMPACT BY VEHICLES, IMPACT PROTECTION SHALL BE IN PLACE IN ACCORDANCE WITH SECTION 312.

**1207.4.6 COMBUSTIBLE STORAGE:**

IN ACCORDANCE WITH SECTION 1207.4.6, NO COMBUSTIBLE MATERIALS WILL BE STORED WITHIN 3' OF THE BATTERY CABINETS.

**1207.4.7 TOXIC AND HIGHLY TOXIC GASES:**

THE ESS BATTERY CABINET IS LOCATED OUTDOORS AND IS NATURALLY VENTILATED, NO EXHAUST SYSTEM IS REQUIRED.

**1207.4.8 SIGNAGE:**

IN ACCORDANCE WITH SECTION 1207.4.8, HAZARD SIGNAGE WILL BE PLACED AT THE BATTERY STORAGE SYSTEM INDICATING "DANGER", "LEAD ACID BATTERIES", "CORROSIVE LIQUIDS", ENERGIZED ELECTRICAL CIRCUITS", "NO SMOKING". SEE SITE SIGNAGE SHEET IN THIS DRAWING SET.

**1207.4.9 SECURITY OF INSTALLATIONS:**

IN ACCORDANCE WITH SECTION 1207.4.9, THE BATTERY CABINETS AND ENCLOSURES WILL BE LOCKED AND SECURED AGAINST UNAUTHORIZED ENTRY.

**1207.4.10 OCCUPIED WORK CENTERS:**

THE TELECOMMUNICATIONS FACILITY AND IT'S ESS IS UNMANNED AND NOT OCCUPIED BY ANY PERSONNEL OTHER THAN THOSE DIRECTLY INVOLVED IN ITS MAINTENANCE.

**1207.4.11 OPEN RACK INSTALLATIONS:**

THE TELECOMMUNICATIONS FACILITY/CABINETS ARE LOCKED AND ONLY AUTHORIZED PERSONNEL HAVE ACCESS TO THE FACILITY AND ESS.

**1207.4.12 WALK-IN UNITS:**

WALK-IN UNITS SHALL BE ENTERED ONLY FOR INSPECTION, MAINTENANCE AND REPAIR OF ESS UNITS AND ANCILLARY EQUIPMENT, AND ARE NOT OCCUPIED FOR ANY OTHER PURPOSES.

**1207.8.3 CLEARANCE TO EXPOSURES:**

IN ACCORDANCE WITH SECTION 1207.8.3, THE ESS IS IN A WEATHERPROOF ENCLOSURE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS AND IS AT LEAST 10' FROM ANY LOT LINES, PUBLIC WAYS, BUILDINGS, STORED COMBUSTIBLE MATERIALS, HAZARDOUS MATERIALS, HIGH-PILED STOCK, OR OTHER EXPOSURE HAZARDS.

**1207.5.5 FIRE SUPPRESSION SYSTEMS**

THE ESS IS FOR A LEAD-ACID BATTERY SYSTEMS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY THAT OPERATE AT LESS THAN 50 VAC AND 60 VDC. ADDITIONALLY, THE ESS IS LOCATED OUTDOORS AND DOES NOT REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM.

**1207.5.5.1 WATER-REACTIVE SYSTEMS:**

THE ESS IS A VALVE REGULATED LEAD ACID (VRLA) BATTERY SYSTEM THAT DOES NOT UTILIZE WATER-REACTIVE MATERIALS.

**1207.5.2 MAXIMUM ALLOWABLE QUANTITIES:**

THE ESS IS A VALVE REGULATED LEAD ACID (VRLA) BATTERY SYSTEM AND PER TABLE 1207.5 THE MAXIMUM ALLOWABLE QUANTITY IS "UNLIMITED".

**1207.5.8 MEANS OF EGRESS SEPARATION:**

IN ACCORDANCE WITH SECTION 1207.5.8, THE ESS IS LOCATED A MINIMUM OF 10' AWAY FROM ANY MEANS OF EGRESS AND DOES NOT OBSTRUCT OR IMPEDE SAFE EGRESS UNDER FIRE CONDITIONS.

**1207.5.1 SIZE AND SEPARATION:**

PER EXCEPTION 1 IN SECTION 1207.5.1, THE ESS IS A LEAD-ACID BATTERY SYSTEM WHICH IS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS IN COMPLIANCE WITH NFPA 76.

**1207.6.1 EXHAUST VENTILATION:**

THE CABINETS CONTAINING BATTERIES ARE OUTDOORS AND MEET VENTILATION REQUIREMENTS. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.2 SPILL CONTROL AND NEUTRALIZATION:**

IN COMPLIANCE WITH SECTION 1207.6.2 OF THE 2022 CALIFORNIA FIRE CODE, A SPILL CONTAINMENT SYSTEM KIT WILL BE STORED AT THE LEASE AREA. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.2.1 SPILL CONTROL:**

THE ESS IS STORED IN CABINETS WHICH COME EQUIPPED WITH SPILL CONTROL TRAYS WHICH ARE CAPABLE OF CONTAINING MORE THAN THE SINGLE LARGEST BATTERY OR VESSEL STORED IN THE CABINET. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.2.2 NEUTRALIZATION:**

SEE RESPONSE FOR SECTION 1207.6.2 ABOVE, A SPILL CONTAINMENT SYSTEM KIT WILL BE STORED AT THE LEASE AREA. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.4 SAFETY CAPS:**

IN ACCORDANCE WITH SECTION 1207.6.4, THE PROPOSED BATTERIES SHALL BE EQUIPPED WITH SELF-RESEALING FLAME ARRESTING CAPS.

**1207.6.5 THERMAL RUNAWAY:**

IN ACCORDANCE WITH SECTION 1207.6.5, THE CABINETS CONTAINING BATTERIES SHALL CONTAIN THERMAL RUNAWAY MANAGEMENT.

**1207.5.7 VEGETATION CONTROL:**

IN ACCORDANCE WITH SECTION 1207.5.7, THE OUTDOOR ESS SHALL BE CLEARED OF COMBUSTIBLE VEGETATION AREAS WITHIN 10' ON EACH SIDE OF THE OUTDOOR ESS CABINETS. EXCEPTION FOR SINGLE SPECIMENS OF TREES, SHRUBBERY OR CULTIVATED GROUND COVER SUCH AS GREEN GRASS, IVY, SUCCULENTS OR SIMILAR PLANTS USED AS GROUND COVER PROVIDED THAT THEY DO NOT FORM A MEANS OF READILY TRANSMITTING FIRE.

Container	5- Gallon D.O.T.	20- Gallon D.O.T.	Lockable Rolling Cart with Organizers	55- Gallon D.O.T.
<b>ENVIRGUARD</b> Global Compliance Solutions				
Tyvek body coveralls	1	2	2	2
Headgear/face shield	1	2	2	2
Goggles	1	2	2	2
Rubber Gloves	1	2	2	2
pH test Kit	1	1	1	1
Duct Tape	1	1	1	1
Absorbent wipes	10	20	15	20
Hazmat disposal bags	2	2	2	3
Disposable respirator	1	2	2	2
Emergency response guidebook	1	1	1	1
NeutraSorb	5 lbs.	10 lbs.	5 lbs.	(4x) 10 lbs.
Neutralizing & absorbing Pads	3	3	5	6
SOCs		2		7
Scoop		1	1	1
Brush		1 brush	1	1 broom with collapsible handle
pH7			1 qt. bottle	16 oz. bottle.
Squeezegee				1 with collapsible handle

Spill Clean-Up Kits Neutralizing Products Cabinet Kits

**5-Gallon Spill Clean-up Kit**

**Kit Includes**

- 5-Gallon D.O.T. container
- 1 pair of Tyvek body coveralls
- 1 headgear/face shield
- 1 pair of goggles
- 1 pair of rubber gloves
- 1 roll of duct tape, 1 pH test kit
- 3 neutralizing & absorbing pads
- 10 absorbent wipes
- 2 hazmat disposal bags
- 1 disposable respirator
- 1 emergency response guidebook
- 5 lbs. NeutraSorb (acid absorbent & neutralizer)



**Part Number**

- SCK-5 - Also available for NiCd (SCK-5-K) applications

**Regulations In Compliance With**

- Fire Codes
- Building Codes
- OSHA 1920.178

**Specifications**

- Height: 14.5"
- Diameter: 11.25"

APPLICANT:



5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY

1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CBL00140**

595 MILLICH

595 MILLICH DRIVE  
CAMPBELL, CA 95008

FA#: 16054004  
PACE#: MRSFR099348  
PT#: 3701A17H8W  
USID#: 329301

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	BH	BH	SMR
A	01/04/24	ISSUED FOR 95%DCS				
B	03/08/24	ISSUED FOR 95%DCS				
C	03/29/24	REV. 95%DCS				

PROFESSIONAL STAMP:

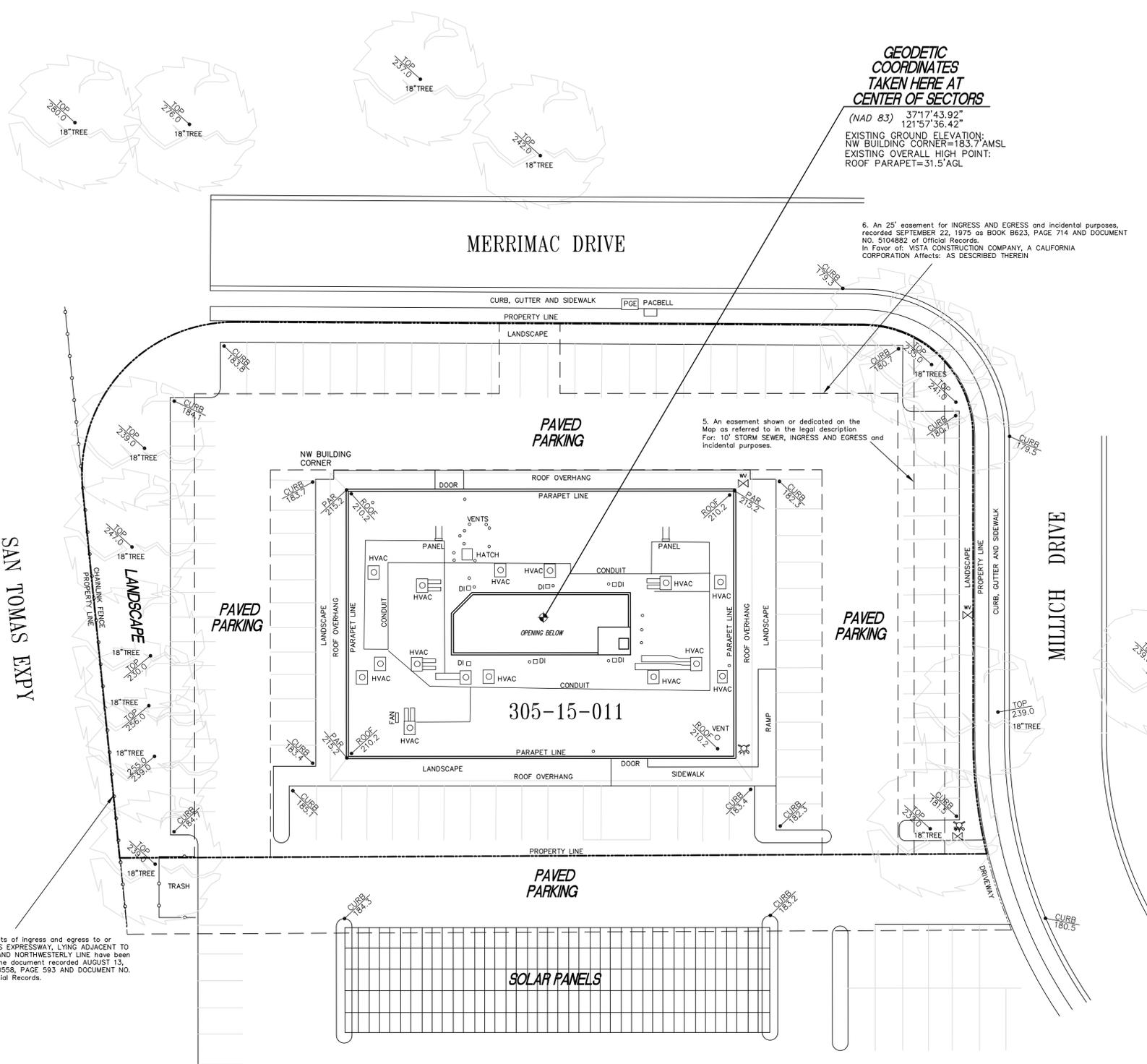
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SHEET TITLE:

**GN-2**

SHEET NAME:

**CFC 2022 SECTION 1207 COMPLIANCE**

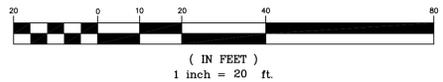
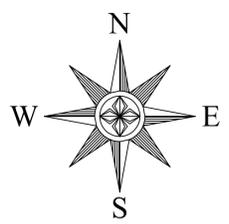


**GEODETIC COORDINATES TAKEN HERE AT CENTER OF SECTORS**  
 (NAD 83) 37°17'43.92" 121°57'36.42"  
 EXISTING GROUND ELEVATION: NW BUILDING CORNER=183.7' AMSL  
 EXISTING OVERALL HIGH POINT: ROOF PARAPET=31.5' AGL

6. An 25' easement for INGRESS AND EGRESS and incidental purposes, recorded SEPTEMBER 22, 1975 as BOOK B623, PAGE 714 AND DOCUMENT NO. 5104882 of Official Records. In Favor of VISTA CONSTRUCTION COMPANY, A CALIFORNIA CORPORATION. Affect: AS DESCRIBED THEREIN

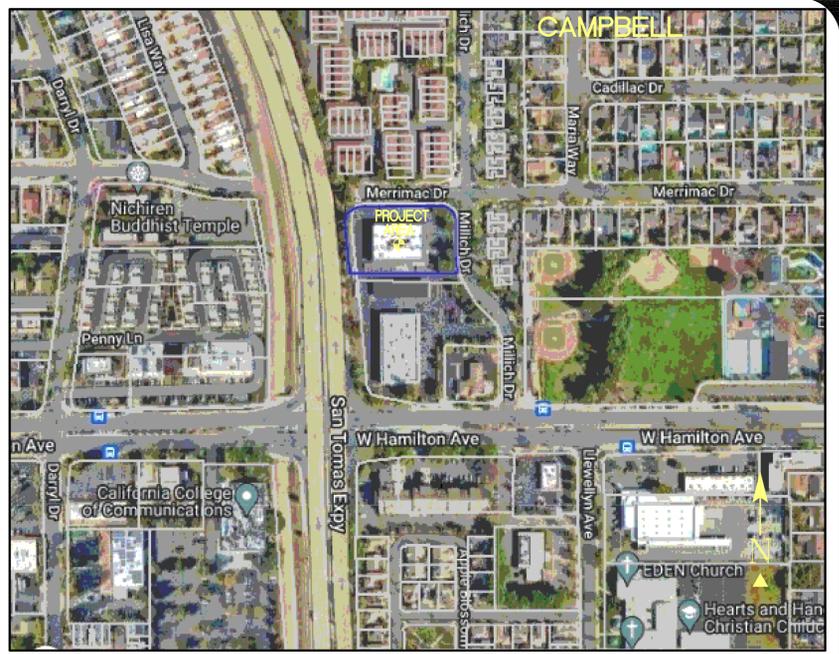
5. An easement shown or dedicated on the Map as referred to in the legal description. For: 10' STORM SEWER, INGRESS AND EGRESS and incidental purposes.

4. Abutter's rights of ingress and egress to or from SAN TOMAS EXPRESSWAY, LYING ADJACENT TO THE WESTERLY AND NORTHWESTERLY LINE have been relinquished in the document recorded AUGUST 13, 1975 as BOOK B558, PAGE 593 AND DOCUMENT NO. 5075011 of Official Records.



305-15-011  
 305-15-012

PROJECT AREA 20 SCALE



VICINITY MAP

**PROPERTY INFORMATION**

OWNER: HARMAN MANAGEMENT CORPORATION  
 ADDRESS: 5544 GREEN STREET  
MURRAY, UT 84123  
 SITE: 595 MILLICH  
595 MILLICH DRIVE 210  
CAMPBELL, CA 95008

ASSESSOR'S PARCEL NUMBER: 305-15-011  
 EXISTING GROUND ELEVATION: NW BUILDING CORNER=183.7' AMSL

**SURVEYOR'S NOTES**

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

**UTILITY NOTES**

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

**LESSOR'S LEGAL DESCRIPTION**

ALL THAT CERTAIN REAL PROPERTY SITUATE IN THE COUNTY OF SANTA CLARA, STATE OF CALIFORNIA. RECORDED: LOT 2 BOOK 361 PAGE 20, AND AS SHOWN ON SAID TITLE REPORT.

**BENCHMARK**

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

**BASIS OF BEARING**

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

**TITLE REPORT**

TITLE REPORT WAS PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY, ORDER NO: 5026900-7064564, DATED: DECEMBER 4, 2023.

**SURVEY DATE**

12/04/23

**LEGEND**

UTL	UTILITY	⊗	WATER CONTROL VALVE
PAR	PARAPET	⊙	FIRE HYDRANT
GR	GROUND SHOT	⊙	GUY CONDUCTOR
EP	EDGE OF PAVEMENT	⊙	FOUND AS NOTED
DWY	ACCESS DRIVEWAY	⊙	POWER POLE
PS	PARKING SPACE	⊙	LIGHT
SW	SIDEWALK	⊙	ELECTRICAL TRANSFORMER
DI	DRAIN INLET	⊙	AIR CONDITIONING UNIT
SCRN	SCREEN	⊙	TELEPHONE PEDESTAL
SSCO	SEWER CLEAN OUT	⊙	TELEPHONE VAULT
WW	WINDOW WASHER MOUNT	⊙	TELEPHONE MANHOLE
⊙	GEODETIC COORDINATES	⊙	GAS VALVE
⊙	SPOT ELEVATION	⊙	GAS METER
⊙	DISH ANTENNA	⊙	PROPERTY LINE
⊙		⊙	CHAINLINK FENCE

REV.	DESCRIPTION	DATE	ISSUE STATUS
1	SITE PLAN	12/04/2023	
2	SITE PLAN	12/04/2023	
3	TITLE REVIEW	07/03/2024	

**HAYES**  
 Land Surveying  
 And Mapping  
 2830 MADRIGAN COURT  
 CONCORD, CA 94518



2600 CAMINO RAMON  
 4TH FLOOR, WEST WING  
 SAN RAMON, CA 94583

TOPOGRAPHIC SURVEY  
 EXISTING CONDITIONS

CBL001140  
 595 MILLICH  
 595 MILLICH DRIVE 210  
 CAMPBELL, CA 95008

C-1  
 SHEET 1 of 1



5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

**PM&A**  
P. MARSHALL & ASSOCIATES  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE. 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

**CBL00140**

**595 MILLICH**

595 MILLICH DRIVE  
CAMPBELL, CA 95008

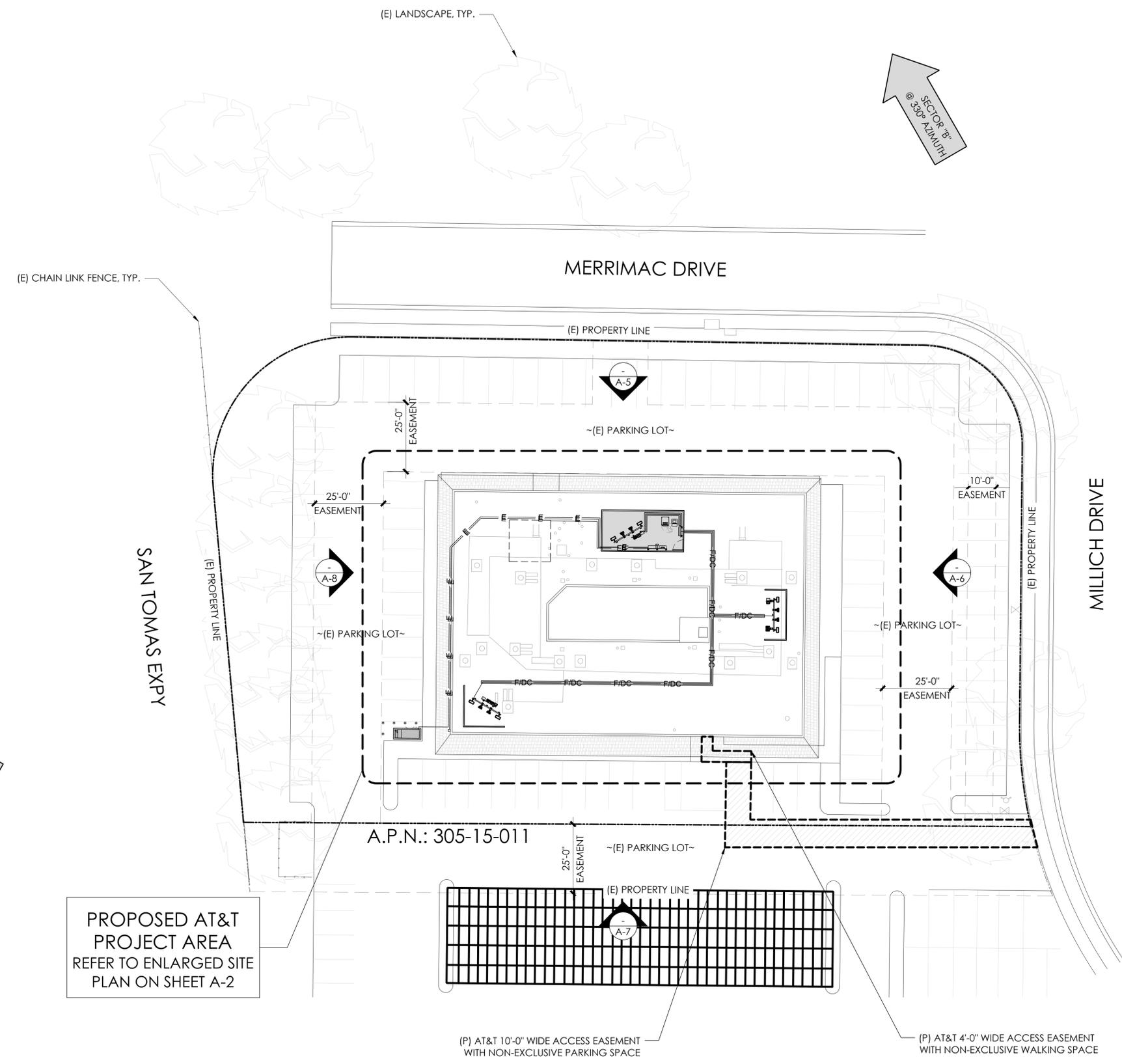
FA#: 16054004  
PACE#: MRSFR099348  
PT#: 3701A17H8W  
USID#: 329301

REV	DATE	DESCRIPTION	INT.	BH	SMR
A	01/04/24	ISSUED FOR 90%ZDS			
B	03/08/24	ISSUED FOR 95%ZDS			
C	03/29/24	REV. 95%ZDS			

PROFESSIONAL STAMP:  
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**A-1**

**OVERALL SITE PLAN**



PROPOSED AT&T  
PROJECT AREA  
REFER TO ENLARGED SITE  
PLAN ON SHEET A-2

A.P.N.: 305-15-011

(P) AT&T 10'-0" WIDE ACCESS EASEMENT  
WITH NON-EXCLUSIVE PARKING SPACE

(P) AT&T 4'-0" WIDE ACCESS EASEMENT  
WITH NON-EXCLUSIVE WALKING SPACE



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C	03/29/24	REV. 95%SDS			

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**A-2**

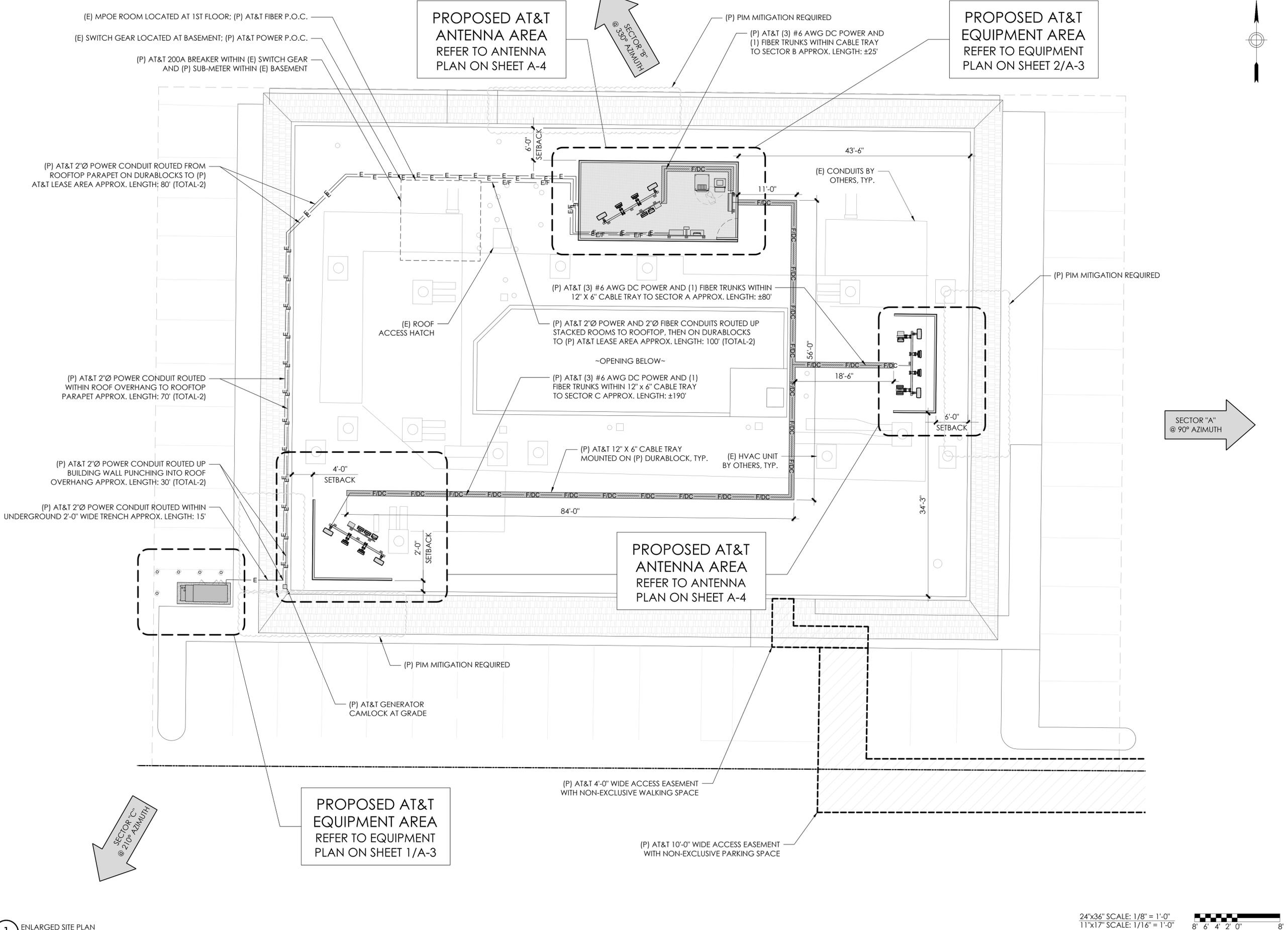
**ENLARGED  
SITE PLAN**

**PROPOSED AT&T  
ANTENNA AREA  
REFER TO ANTENNA  
PLAN ON SHEET A-4**

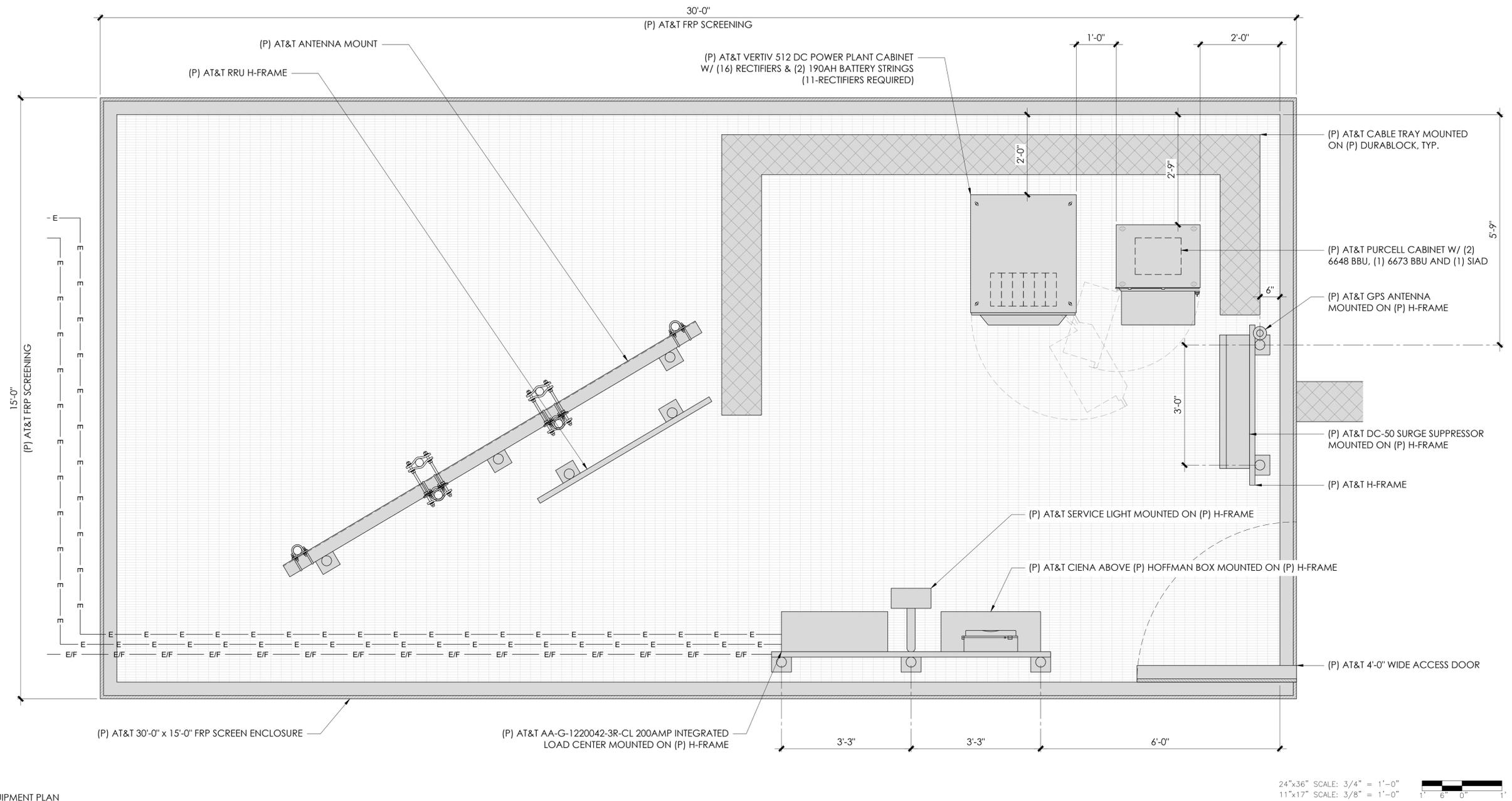
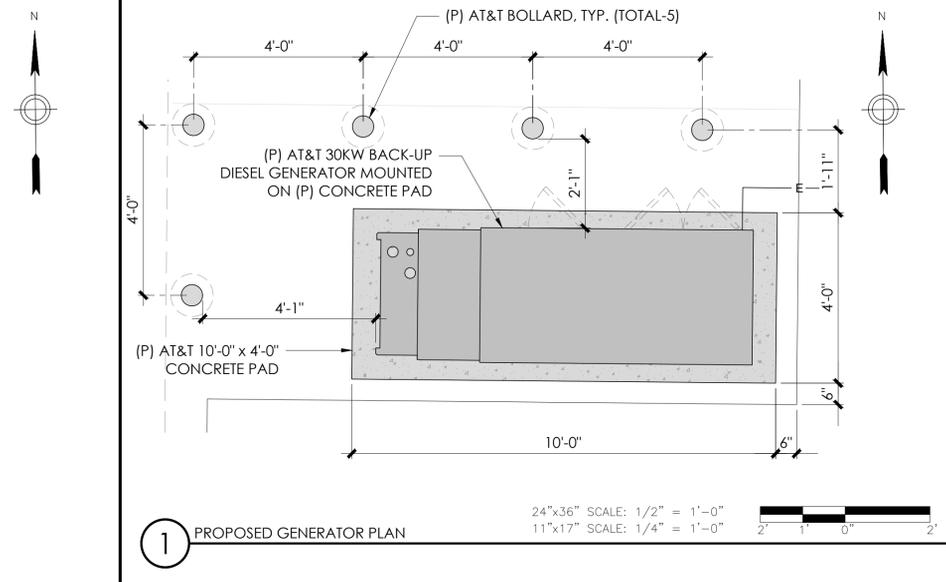
**PROPOSED AT&T  
EQUIPMENT AREA  
REFER TO EQUIPMENT  
PLAN ON SHEET 2/A-3**

**PROPOSED AT&T  
ANTENNA AREA  
REFER TO ANTENNA  
PLAN ON SHEET A-4**

**PROPOSED AT&T  
EQUIPMENT AREA  
REFER TO EQUIPMENT  
PLAN ON SHEET 1/A-3**



NOTE:  
(P) AT&T ANTENNAS AND RRUS NOT SHOWN FOR CLARITY.



APPLICANT:  
  
 5005 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:  
  
**P. MARSHALL & ASSOCIATES**  
 A CENTERLINE COMMUNICATIONS COMPANY  
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 ROSWELL, GA 30076  
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SITE INFORMATION:  
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**595 MILLICH**  
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 CAMPBELL, CA 95008  
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SHEET TITLE:  
**A-3**

SHEET NAME:  
**PROPOSED EQUIPMENT PLANS**



5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE. 210  
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C	03/29/24	REV. 95%ZDS			

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**A-4**

**PROPOSED ANTENNA PLAN**

APPLICANT:

VENDOR:

SITE INFORMATION:

DESIGN RECORD:

PROFESSIONAL STAMP:

SHEET TITLE:

SHEET NAME:



(P) AT&T 30'-0" x 15'-0" FRP SCREENING

(P) AT&T QD6612-2 PANEL ANTENNA, TYP. 2 PER SECTOR (TOTAL-6)

(P) AT&T 15'-0" x 15'-0" FRP SCREENING

(P) AT&T (3) #6 AWG DC POWER AND (1) FIBER TRUNKS WITHIN CABLE TRAY TO SECTOR C APPROX. LENGTH: ±190'

(P) AT&T DC-9 SURGE SUPPRESSOR, TYP. 1 PER SECTOR (TOTAL-3)

(P) AT&T RRU 4478 B14, TYP. (1) PER SECTOR (TOTAL-3)

(P) AT&T CABLE TRAY MOUNTED ON (P) DURABLOCK, TYP.

(P) AT&T (3) #6 AWG DC POWER AND (1) FIBER TRUNKS WITHIN CABLE TRAY TO SECTOR A APPROX. LENGTH: ±80'

(P) AT&T RRU 4890 B25/B66, TYP. (1) PER SECTOR (TOTAL-3)

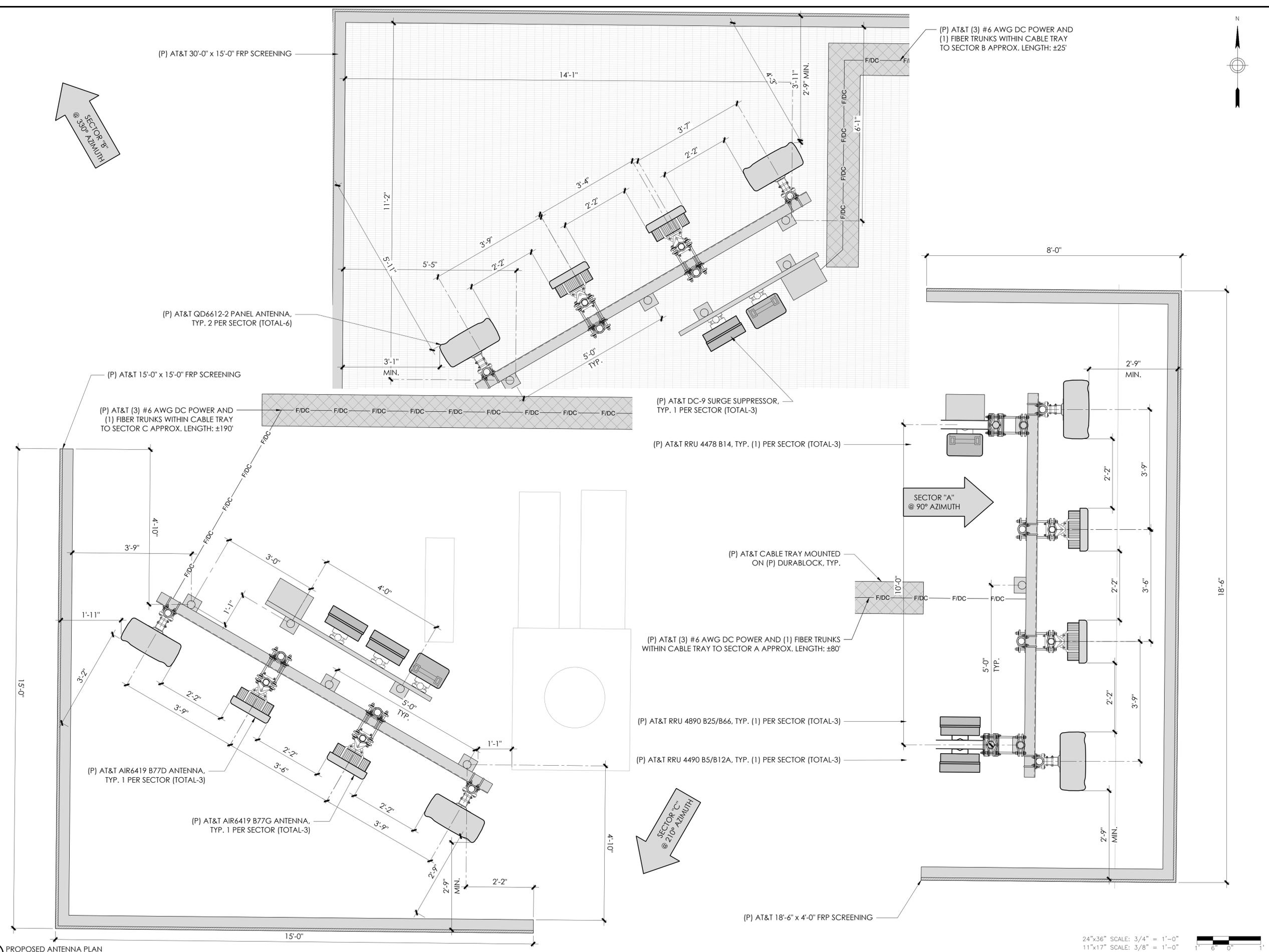
(P) AT&T RRU 4490 B5/B12A, TYP. (1) PER SECTOR (TOTAL-3)

(P) AT&T AIR6419 B77D ANTENNA, TYP. 1 PER SECTOR (TOTAL-3)

(P) AT&T AIR6419 B77G ANTENNA, TYP. 1 PER SECTOR (TOTAL-3)

(P) AT&T 18'-6" x 4'-0" FRP SCREENING

(P) AT&T (3) #6 AWG DC POWER AND (1) FIBER TRUNKS WITHIN CABLE TRAY TO SECTOR B APPROX. LENGTH: ±25'



1 PROPOSED ANTENNA PLAN

24"x36" SCALE: 3/4" = 1'-0"  
11"x17" SCALE: 3/8" = 1'-0"  
1" 6" 0"

NOTES TO CONTRACTOR:

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

NOTE:

(E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

Position	Antenna		RRUS		Additional Antenna Location		Line Information	
	Type	Technology	Type	Location	Azimuth	Rad Center	Coax Cables Final	Power/Fiber Final
<b>ALPHA</b>								
1	QD6612-2 QUINTEL	LTE 700 LTE 1900	(1) RRUS 4490 B5/B12A	TOP	90	37'-6"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77D ERICSSON	5G CBAND	N/A	N/A	90	39'-3"		
3	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	90	39'-3"		
4	QD6612-2 QUINTEL	LTE FNET LTE AWS	(1) RRUS 4478 B14 (1) RRUS 4890 B25/B66	TOP TOP	90	37'-6"		
<b>BETA</b>								
1	QD6612-2 QUINTEL	LTE 700 LTE 1900	(1) RRUS 4490 B5/B12A	TOP	330	37'-6"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77D ERICSSON	5G CBAND	N/A	N/A	330	39'-3"		
3	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	330	39'-3"		
4	QD6612-2 QUINTEL	LTE FNET LTE AWS	(1) RRUS 4478 B14 (1) RRUS 4890 B25/B66	TOP TOP	330	37'-6"		
<b>GAMMA</b>								
1	QD6612-2 QUINTEL	LTE 700 LTE 1900	(1) RRUS 4490 B5/B12A	TOP	210	37'-6"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77D ERICSSON	5G CBAND	N/A	N/A	210	39'-3"		
3	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	210	39'-3"		
4	QD6612-2 QUINTEL	LTE FNET LTE AWS	(1) RRUS 4478 B14 (1) RRUS 4890 B25/B66	TOP TOP	210	37'-6"		

APPLICANT:



5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



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USID#: 329301

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	BH	SMR
A	01/04/24	ISSUED FOR 90%ZDS			
B	03/08/24	ISSUED FOR 95%ZDS			
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SHEET TITLE:

**A-4.1**

SHEET NAME:

**RF SCHEDULES**



5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

**CBL00140**

**595 MILLICH**

595 MILLICH DRIVE  
CAMPBELL, CA 95008

FA#: 16054004  
PACE#: MRSFR099348  
PT#: 3701A17H8W  
USID#: 329301

APPLICANT:

VENDOR:

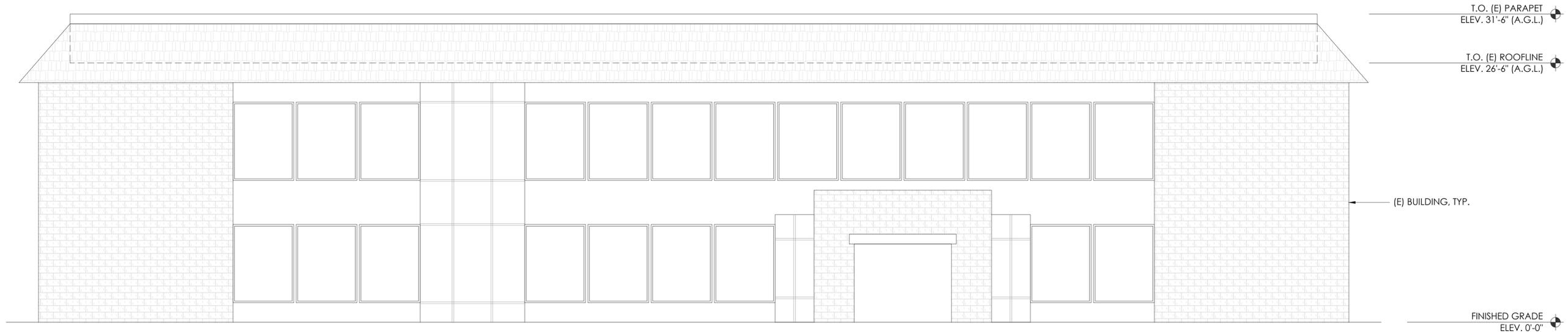
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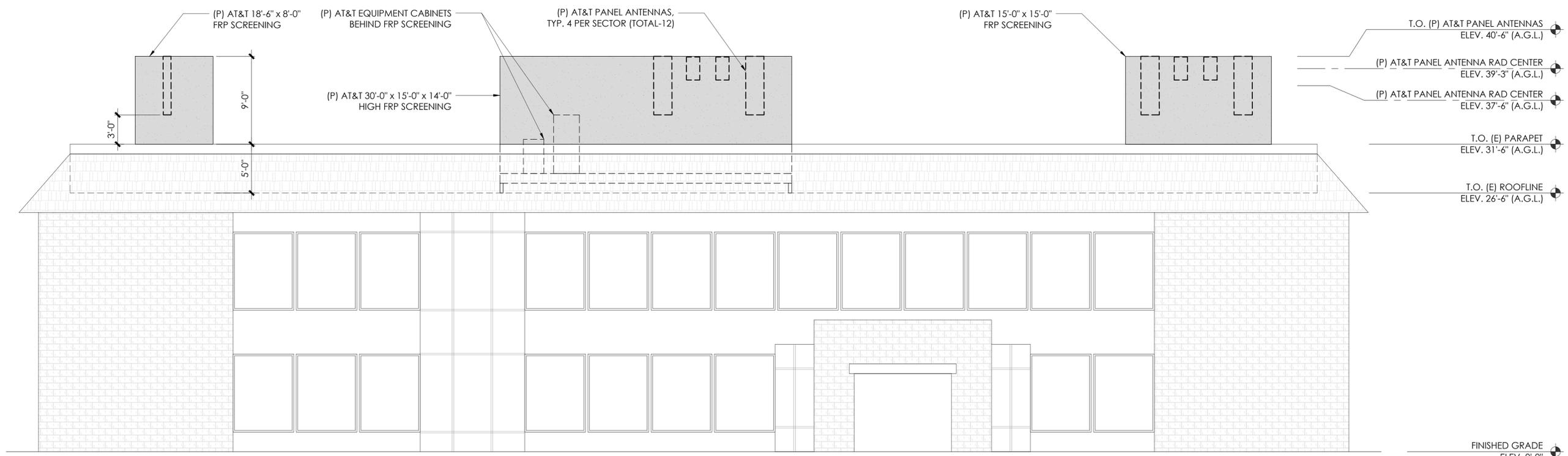
SHEET TITLE:

SHEET NAME:



1 EXISTING NORTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"



2 PROPOSED NORTH ELEVATION

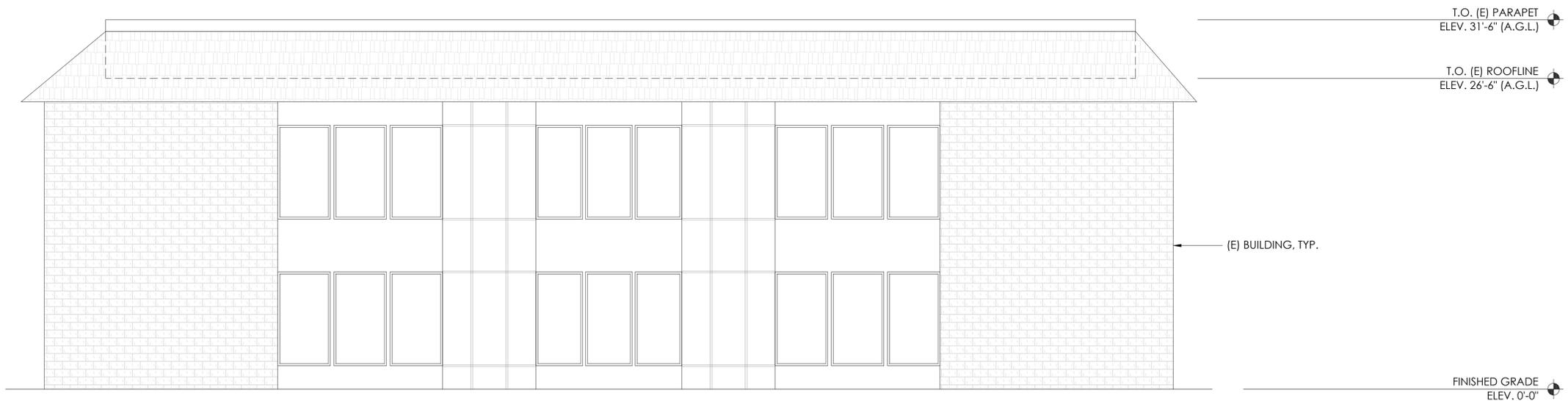
24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"



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**A-5**

**NORTH ELEVATIONS**



1 EXISTING EAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"

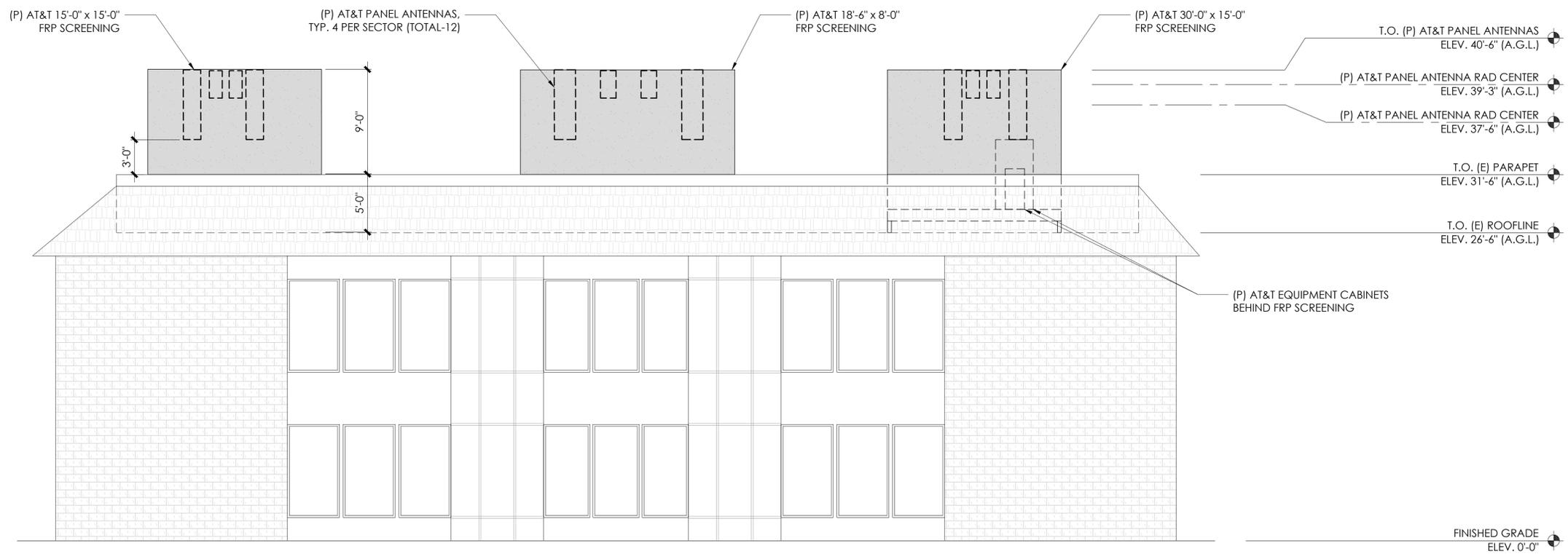
APPLICANT:  
  
 5005 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:  
  
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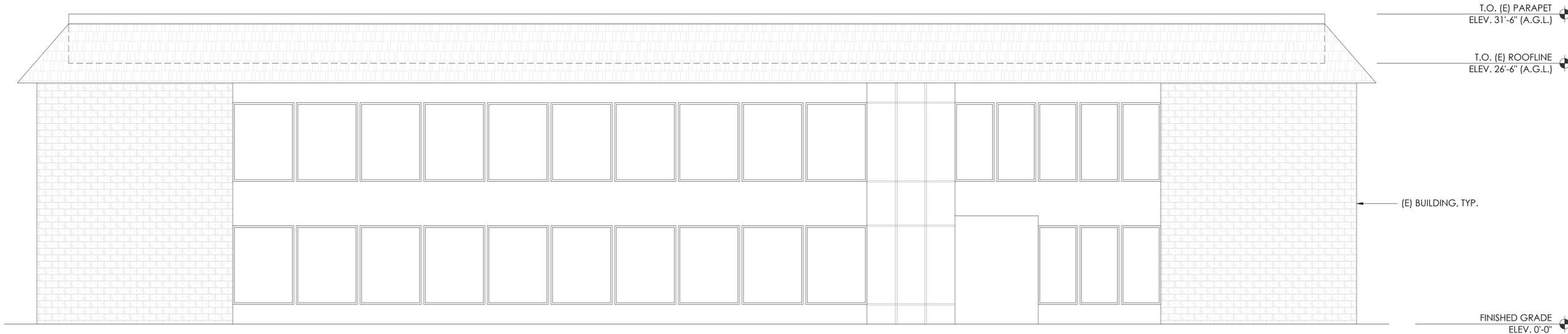
2 PROPOSED EAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"

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SHEET TITLE:  
**A-6**

SHEET NAME:  
**EAST ELEVATIONS**



1 EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"

APPLICANT:



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 SAN RAMON, CA 94583

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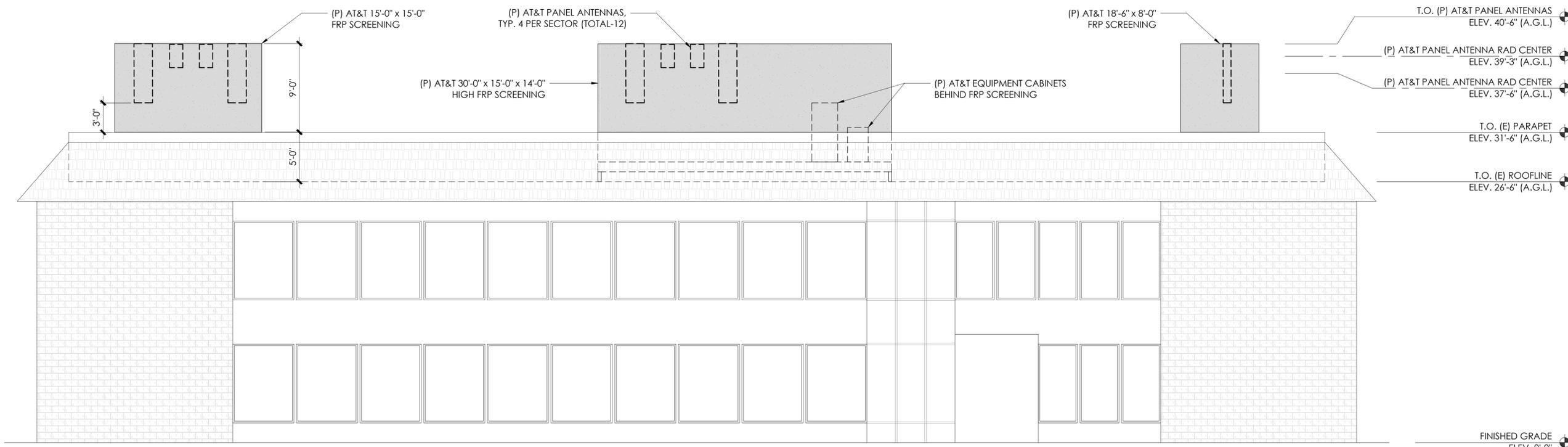
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2 PROPOSED SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"

PROFESSIONAL STAMP:

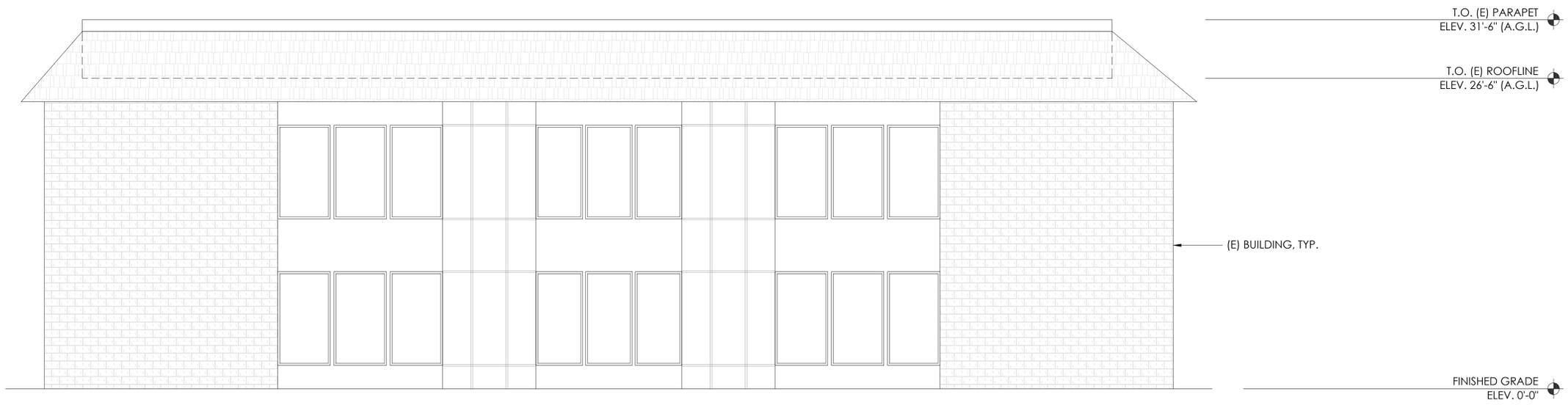
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SHEET TITLE:

**A-7**

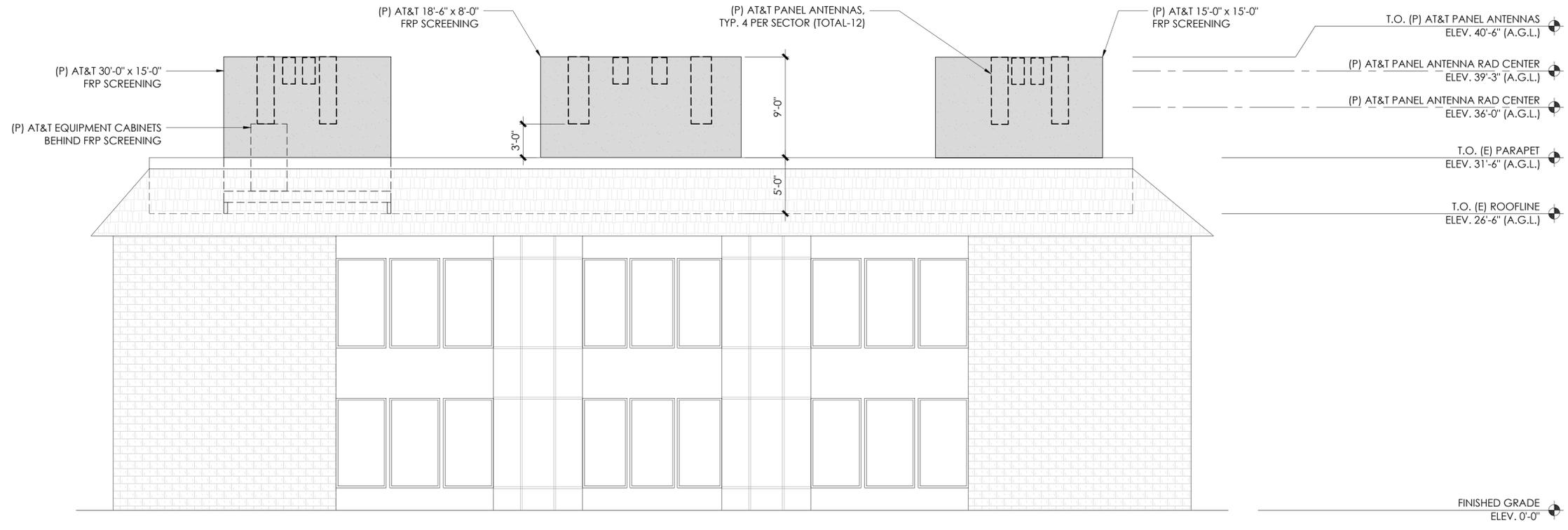
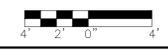
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**SOUTH ELEVATIONS**



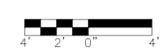
1 EXISTING WEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"



2 PROPOSED WEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"



APPLICANT:



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 SAN RAMON, CA 94583

VENDOR:



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**A-8**

SHEET NAME:

**WEST ELEVATIONS**

**ELECTRICAL INSTALLATION METHODS:**

- This installation shall comply with the currently adopted edition of the National Electrical Code and with utility company and local code requirements.
- Install sufficient lengths of LFMC including all conduit fittings (nuts, reducing bushings, elbows, couplings, etc) necessary for connection from IMC or PVC conduit to the interior of the BTS cabinet.
- Power, control and equipment ground wiring in tubing or conduit shall be single conductor (#14 AWG and larger), 600V, oil resistant THHN or THWN-2, Class B stranded copper cable rated for 90°C (wet and dry) operation; listed or labeled for the location and raceway system used.
- Cut, coil and tape a 3 foot pigtail from end of LFMC for terminating by BTS equipment manufacturer.
- Supplemental equipment ground wiring located indoors shall be single conductor (#6 AWG and 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.
- Supplemental equipment ground wiring located outdoors or below grade shall be single conductor #2 AWG solid, tinned, copper cable.
- Power and control wiring, not in tubing or conduit, shall be multi-conductor, Type TC, Cable (#14 AWG and larger), 600V, oil resistant THHN or THWN-2, Class B, Stranded copper cable rated for 90°C (Wet or Dry) operation, with outer jacket listed or labeled for the location used.
- Cables shall not be routed through ladder-style cable tray runs.
- Raceway and cable tray shall be listed or labeled for electrical use in accordance with NEMA, UL, ANSI/IEEE and NEC.
- New raceway or cable tray shall match the existing installation where possible.
- All power and grounding connections shall be crimp style, compression, wire lugs and wirenuts by Thomas and Betts (or equal). Lugs and wirenuts shall be rated for operation at no less than 75°C.
- Each end of every power, grounding and T1 conductor and cable shall be labeled with color coded insulation or electrical tape. The identification method shall conform with NEC & OSHA and match existing installation requirements.
- All electrical components shall be clearly labeled with engraved laminated plastic labels. All equipment shall be labeled with their voltage rating, phase configuration, wire configuration, power or ampacity rating and branch circuit ID numbers (panelboard and circuit identification).
- All tie wraps shall be cut flush with approved cutting tool to remove sharp edges.
- Rigid nonmetallic conduit (PVC Schedule 40 or PVC Schedule 80) shall be used underground, direct buried in areas of occasional light vehicle traffic or encased in reinforced concrete in areas of heavy vehicle traffic.
- All conduit run above ground or exposed shall be LFMC, IMC or Rigid Steel.
- Electrical metallic tubing (EMT) shall be used for concealed indoor locations.
- Liquid tight flexible metallic conduit shall be used indoors and outdoors where vibration occurs or flexibility is needed.
- Conduit and tubing fittings shall be threaded or compression type and approved for the location used. Setscrew fittings are not acceptable.
- Cabinets, boxes and wireways shall be listed or labeled for electrical use in accordance with NEMA, UL, ANSI/IEEE and NEC.
- Cabinets, boxes and wireways shall match the existing installation where possible.
- Provide necessary tagging on the breakers, cables and distribution panels in accordance with applicable codes and standards to safeguard life and property.
- The subcontractor shall review and inspect the existing facility grounding system and lightning protection system (as designed and installed) for strict compliance with the NEC. The site specific lightning protection code and general compliance with Telcordia and TIA grounding standards. The subcontractor shall report any violations or adverse findings to the contractor for resolution.
- All electrode systems (including telecommunication, radio, lightning protection and AC power GES's) shall be bonded together at or below grade by two or more

25. Perform IEEE fall-of-potential resistance to earth testing (per IEEE 1100 and 81) for new ground electrode systems. The subcontractor shall furnish and install supplemental ground electrodes as needed to achieve a test result of 5 ohms or less.
26. 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.
27. Each indoor BTS cabinet frame shall be directly connected to the master ground bar with supplemental equipment ground wires #6 or larger.
28. Exothermic welds shall be used for all grounding connections below grade.
29. Approved antioxidant coatings (i.e. conductive gel or paste) shall be used on all compression and bolted ground connections.
30. ICE bridge bonding conductors shall be exothermically bonded or bolted to the bridge and the tower ground bar.
31. Surfaces to be connected to ground conductors shall be cleaned to a bright surface at all connections.
32. Exposed ground connections shall be made with compression connectors which are then bolted to equipment using stainless steel hardware. Installation torque shall be per manufacturer's requirements.
33. DC power cables shall be Cobra COP-FLEX 2000, Flexible Class B or approved equal.

**ELECTRICAL NOTES**

**GENERAL REQUIREMENTS:**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL 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 ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- 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 IS NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- 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.
- COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES

**EQUIPMENT LOCATION:**

- THE DRAWINGS INDICATE DIAGRAMMATICALLY 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 LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR 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.
- LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
- COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY, OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

**SHOP DRAWINGS:**

- N/A UNLESS NOTED OTHERWISE.

**SUBSTITUTIONS:**

- NO SUBSTITUTIONS ARE ALLOWED

**TESTS:**

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

**PERMITS:**

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

**GROUNDING:**

- THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC 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.
- REFER TO GROUND BUS DETAILS, PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.
- ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 25 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 SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

**UTILITY SERVICE:**

- 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.
- CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

**PRODUCTS:**

- ALL MATERIALS SHALL BE NEW, CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- CONDUIT:
  - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
  - ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
  - 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 EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
  - CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
  - ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE
  - ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
  - CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4x4 REDWOOD SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.
- 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.
- PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.
- DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.
- TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.
- PANELBOARDS 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 PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.
- 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.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
- INSTALLATION:
  - PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINARIES FROM UNDERSIDE OF STRUCTURAL CEILING. 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.
  - CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ENGINEER BEFORE CORING.
  - IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER THE CIRCUMSTANCES.
  - LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY

APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.

- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE C.B.C.

**PROJECT CLOSEOUT:**

- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.
- ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

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SHEET TITLE:

**E-1**

SHEET NAME:

**ELECTRICAL NOTES**



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**E-2**

SHEET NAME:  
**ELECTRICAL SITE PLAN**

APPLICANT:

VENDOR:

SITE INFORMATION:

DESIGN RECORD:

PROFESSIONAL STAMP:

SHEET TITLE:

SHEET NAME:



(E) MPOE ROOM LOCATED AT 1ST FLOOR; (P) AT&T FIBER P.O.C.

(E) SWITCH GEAR LOCATED AT BASEMENT; (P) AT&T POWER P.O.C.

(P) AT&T 2"Ø POWER CONDUIT ROUTED FROM ROOFTOP PARAPET ON DURABLOCKS TO (P) AT&T LEASE AREA APPROX. LENGTH: 80' (TOTAL-2)

(P) AT&T 2"Ø POWER CONDUIT ROUTED WITHIN ROOF OVERHANG TO ROOFTOP PARAPET APPROX. LENGTH: 70' (TOTAL-2)

(P) AT&T 2"Ø POWER CONDUIT ROUTED UP BUILDING WALL PUNCHING TO ROOF OVERHANG PENETRATION APPROX. LENGTH: 30' (TOTAL-2)

(P) AT&T 2"Ø UNDERGROUND POWER CONDUIT APPROX. LENGTH: 15'

(P) AT&T GENPLUG AT GRADE

(P) AT&T 4'-0" WIDE ACCESS EASEMENT WITH NON-EXCLUSIVE WALKING SPACE

(P) AT&T 10'-0" WIDE ACCESS EASEMENT WITH NON-EXCLUSIVE PARKING SPACE

(E) CONDUITS BY OTHERS, TYP.

(E) HVAC UNIT BY OTHERS, TYP.

(P) AT&T 2"Ø POWER AND 2"Ø FIBER CONDUITS ROUTED UP STACKED ROOMS TO ROOFTOP, THEN ON DURABLOCKS TO (P) AT&T LEASE AREA APPROX. LENGTH: 100' (TOTAL-2)

~OPENING BELOW~

(P) AT&T CABLE TRAY MOUNTED ON (P) DURABLOCK, TYP.

- NOTES:
1. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
  2. LABEL SERVICE DISCONNECT WITH A RED TAG.
  3. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
  4. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
  5. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
  6. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
  7. THE MAIN SWITCHBOARD SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED. CEC 110.24(A).
  8. ARC FLASH HAZARD DISCONNECT SHALL BE PROVIDED IN ACCORDANCE WITH CEC 110.16.
  9. THE MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY CEC 230.70(B).
  10. SWITCHBOARDS, SWITCHGEAR, AND PANELBOARDS SHALL HAVE THE AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED SHALL BE FIELD MARKED ON THE ENCLOSURE AT THE POINT OF SUPPLY. THE MARKING SHALL COMPLY WITH 110.21(B)(3). CEC 408.6.
  11. PROVIDE A PLAQUE OR DIRECTORY PER CEC 700.7(A) OR 702.7(A).

NOTE:  
ALL BREAKERS AND PANELS SHOWN ARE EXISTING UNLESS NOTED AS (N) NEW.  
SEE SPECIFICATION FOR CONDUIT TYPE.

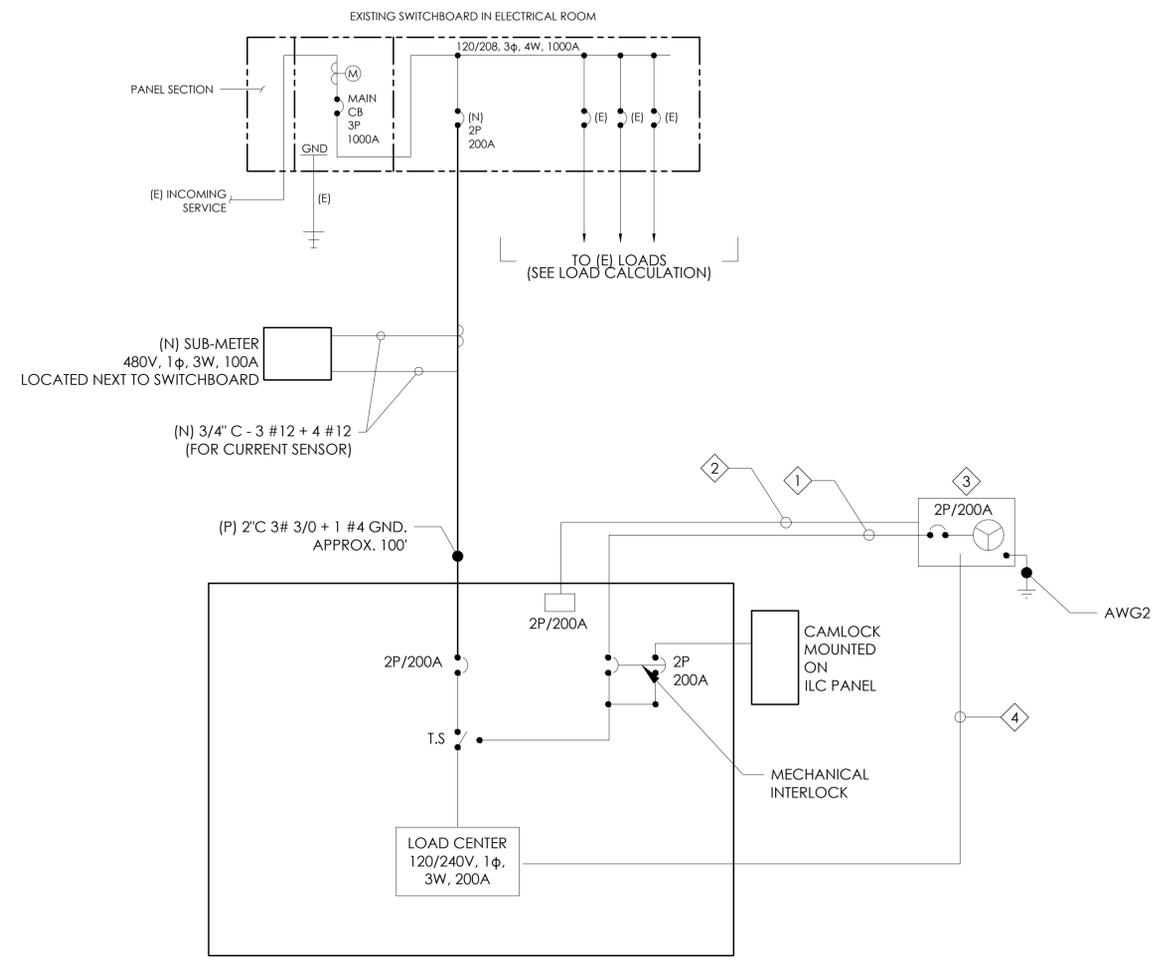
LEGEND:  
MI = MECHANICAL INTERLOCK  
RU = RELAY TO MONITOR UTILITY POWER  
RG = RELAY TO MONITOR GENERATOR POWER

- NOTES:
1. THIS PANEL IS PROVIDED AND INSTALLED BY VAULT MANUFACTURER
  2. LIGHTING, DUPLEX RECEPTACLE, G.F.I ARE DESIGNED AND INSTALLED BY VAULT MANUFACTURER.

VOLTAGE: 120/240V, 1-PHASE, 3W, 200A, 42 KAIC MOUNTING: SURFACE  
MAIN CB: 2P/200A NEMA: 1  
LOCATION: @ LEASE AREA

VOLT AMPS		DESCRIPTION	POLE	BKR	CKT	PANEL 'A'		CKT	BKR	POLE	DESCRIPTION	VOLT AMPS	
PHASE A	PHASE B					A	B					PHASE A	PHASE B
2150		VERTIV 512	2	30	1	•	2	30	2		VERTIV 512	2150	
	2150	RECTIFIERS 1&2			3	•	4				RECTIFIERS 3&4		2150
2150		VERTIV 512	2	30	5	•	6	30	2		VERTIV 512	2150	
	2150	RECTIFIERS 5&6			7	•	8				RECTIFIERS 7&8		2150
2150		VERTIV 512	2	30	9	•	10	30	2		RECTIFIERS 11&12	2150	
	2150	RECTIFIERS 9&10			11	•	12				VERTIV 512	2150	
2150		VERTIV 512	2	30	13	•	14	30	2		RECTIFIERS 15&16	2150	
	2150	RECTIFIERS 13&14			15	•	16				VERTIV 512	2150	
180		VERTIV GFI	1	20	17	•	18	30	2		SURGE SUPPRESSOR		
	360	VERTIV BATTERY HEATER	1	20	19	•	20						
180		VERTIV GFI	1	20	21	•	22	20	1		SERVICE LIGHT	360	
					23	•	24	20	1		GFI		180
					25	•	26						
					27	•	28						
					29	•	30						
					31	•	32						
					33	•	34						
					35	•	36						
					37	•	38						
					39	•	40						
					41	•	42						
8960	8960	VA/LINE										8960	8780
PHASE A =		17920 VA		PHASE B =		17740 VA							
CONNECTED LOAD:		35660 VA											
CONNECTED AMPS:		149 A											

2 AC PANEL SCHEDULE  
N.T.S.



INTEGRATED LOAD CENTER (ILC)  
(POWER PANEL 'A' AA-G-1220042-3R-CL) MOUNTED ON SHELTER AT LEASE AREA.  
INCLUDES AUTOMATIC TRANSFER SWITCH. REFER TO PANEL SCHEDULE.

- KEY NOTES:
- 1 (P) 2" C \_ (3)#3/0 + (1)#4 GND, APPROX - 30FT.
  - 2 (P) 1" C \_ (2)#16 FOR START/STOP GENERATOR, AND (1) CAT 5 CABLE FOR ALARM & MONITOR. REFER TO SHELTER DRAWINGS PROVIDED BY SHELTER MANUFACTURER FOR DETAILED WIRING CONNECTION
  - 3 (P) GENERATOR 120/240V, 1φ 30KW, FURNISHED W/ DIS. CB, LOCKABLE IN THE OPEN POSITION.
  - 4 (P) 3/4" C \_ (4)#12 + (2)#12 GND. FOR BATTERY CHARGER AND BLOCK HEATER

1 SINGLE-LINE DIAGRAM (SLD)  
N.T.S.

APPLICANT:  
  
5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:  
  
P. MARSHALL & ASSOCIATES  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:  
**CBL00140**  
**595 MILLICH**  
595 MILLICH DRIVE  
CAMPBELL, CA 95008  
FA#: 16054004  
PACE#: MRSFR099348  
PT#: 3701A17H8W  
USID#: 329301

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	BH	SMR
A	01/04/24	ISSUED FOR 90%ZDS			
B	03/08/24	ISSUED FOR 95%ZDS			
C	03/29/24	REV. 95%ZDS			

PROFESSIONAL STAMP:  
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:  
**E-3**

SHEET NAME:  
**SINGLE LINE DIAGRAM & PANEL SCHEDULE**