



# Attachment A - Exhibit B - Project Plans

**FIRSTNET/AT&T SITE ID:** CCL05539  
**FIRSTNET/AT&T SITE NAME:** ALVARADO ST & CALLAWAY ST  
**FA LOCATION CODE:** 15521709  
**USID:** 314957  
**PACE #:** MRSFR077581

**PSTC SITE #:** CANC-SLEAN01  
**SITE ADDRESS:** 440 PERALTA AVENUE  
**COUNTY:** SAN LEANDRO, CA 94577  
**SITE TYPE:** ALAMEDA  
**TOWER HEIGHT:** MONOPINE  
**80'-0"**

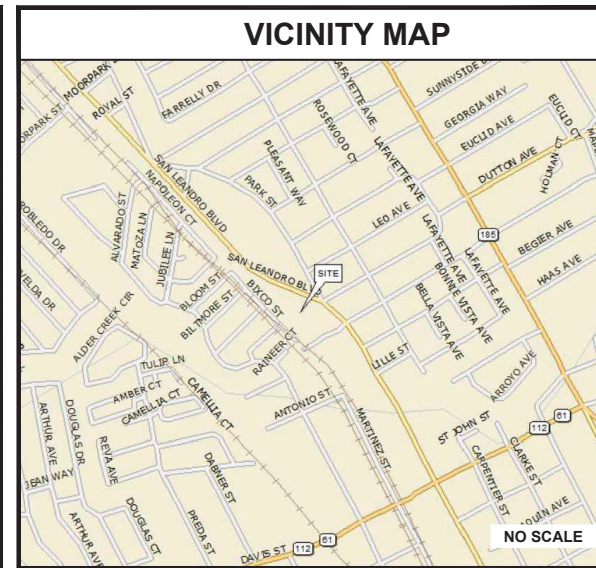


**FIRSTNET/AT&T ID:** CCL05539  
**ALVARADO ST & CALLAWAY ST**  
**PSTC #:** CANC-SLEAN01  
**440 PERALTA**  
**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**  
**PROPOSED 80'-0"**  
**MONOPINE TOWER**

| SITE INFORMATION          |   |
|---------------------------|---|
| PSTC SITE NAME:           | 440 PERALTA   |
| SITE ADDRESS:             | 440 PERALTA AVENUE<br>SAN LEANDRO, CA 94577                                     |
| COUNTY:                   | ALAMEDA   |
| MAP/PARCEL #:             | 75-225-1-4  |
| AREA OF CONSTRUCTION:     | 1,225 SQ FT   |
| LATITUDE:                 | N 37° 43' 41.56" (37.728211°)   |
| LONGITUDE:                | W 122° 09' 56.26" (-122.165657°)  |
| LAT/LONG TYPE:            | NAD83   |
| GROUND ELEVATION:         | 47±   |
| CURRENT ZONING:           | DA-2  |
| JURISDICTION:             | CITY OF SAN LEANDRO   |
| OCCUPANCY CLASSIFICATION: | U   |
| TYPE OF CONSTRUCTION:     | V-B   |
| A.D.A. COMPLIANCE:        | FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION                               |
| PROPERTY OWNER:           | LEE, DONALD R & JO A TRS<br>10217 BUCKMEADOWS DRIVE<br>OAKLAND, CA 95361        |
| TOWER OWNER:              | PUBLIC SAFETY TOWERS, LLC<br>1903 WRIGHT PLACE, SUITE 140<br>CARLSBAD, CA 92008 |
| CARRIER/APPLICANT:        | AT&T<br>5001 EXECUTIVE PKWY<br>SAN RAMON, CA 94583                              |
| ELECTRIC PROVIDER:        | PG&E  |
| TELCO PROVIDER:           | AT&T  |

| DRAWING INDEX |                              |     |
|---------------|------------------------------|-----|
| SHEET #       | SHEET DESCRIPTION            | REV |
| T-1           | TITLE SHEET                  | H   |
| GN-1          | GENERAL NOTES                | H   |
| LS-1          | SITE SURVEY                  | O   |
| LS-2          | SITE SURVEY                  | O   |
| LS-3          | NOTES                        | O   |
| C-1.1         | OVERALL SITE PLAN            | H   |
| C-1.2         | EXISTING SITE PLAN           | H   |
| C-1.3         | PROPOSED SITE PLAN           | H   |
| C-1.4         | COMPOUND LAYOUT              | H   |
| C-2.1-2.4     | FINAL ELEVATIONS             | H   |
| C-3           | ANTENNA LAYOUT & SCHEDULE    | H   |
| C-4           | WALK-UP-CABINET DETAILS      | H   |
| C-5           | GENERATOR DETAILS            | H   |
| C-6           | BATTERY DETAILS              | H   |
| C-7           | FIRE EXTINGUISHER DETAILS    | H   |
| C-8           | CMU WALL DETAILS             | H   |
| C-9           | EQUIPMENT DETAILS            | H   |
| C-10          | EQUIPMENT DETAILS            | H   |
| C-11          | CONCEALMENT DETAILS          | H   |
| E-1           | ELECTRICAL AC PANEL SCHEDULE | H   |
| E-2           | ELECTRICAL ONE-LINE DIAGRAM  | H   |

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24x36. 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.



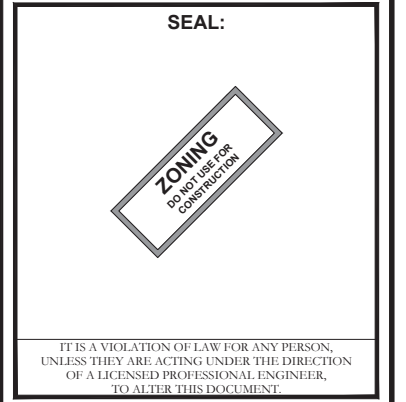
**DIRECTIONS FROM 5005 EXECUTIVE DRIVE:** TURN RIGHT ONTO EXECUTIVE PARKWAY AND KEEP LEFT. TURN LEFT ONTO CAMINO RAMON AND KEEP LEFT. TURN LEFT ONTO NORRIS CANYON ROAD. STAY ON NORRIS CANYON ROAD UNTIL IT ENDS, TURNING LEFT ONTO CROW CANYON ROAD. STAY ON CROW CANYON ROAD UNTIL YOU REACH EAST CASTRO VALLEY BOULEVARD AND TURN LEFT. TURN RIGHT ONTO I-580 TOWARD OAKLAND. TAKE EXIT 30 FOR FOOTHILL BOULEVARD / MCARTHUR BOULEVARD. TURN LEFT ONTO LEWIS AVENUE AND TURN RIGHT ONCE YOU REACH DUTTON AVENUE. STAY ON DUTTON AVENUE AND CONTINUE ONTO BEST AVENUE. TURN RIGHT ONTO SAN LEANDRO BOULEVARD AND TAKE AN IMMEDIATE LEFT INTO THE PARKING LOT FOR SAN LEANDRO ELECTRIC SUPPLY. SITE IS IN THE BACK OF THE PARKING LOT ON THE SOUTHWEST CORNER OF THE PROPERTY.

| PROJECT TEAM                       |   |
|------------------------------------|---|
| PUBLIC SAFETY TOWERS, LLC CONTACT: | 1903 WRIGHT PLACE, SUITE 140<br>CARLSBAD, CA 92008<br>STEPHANIE VANDERVEEN<br>S.VANDERVEEN@PSTCTOWERS.COM<br>(661) 755-1471 |
| TEP PROJECT TEAM:                  | TOWER ENGINEERING PROFESSIONALS<br>4710 E ELWOOD ST, STE 9<br>PHOENIX, AZ 85040   |
| SITE ACQUISITION CONTACT:          | CAROL KINCHELOE<br>CKINCHELOE@TEPGROUP.NET<br>(231) 409-5439  |
| CIVIL ENGINEER:                    | STEPHEN BUNTING, PE<br>SBUNTING@TEPGROUP.NET<br>(919) 661-3530  |
| ELECTRICAL ENGINEER:               | MARK QUAKENBUSH, PE<br>MQUAKENBUSH@TEPGROUP.NET<br>(919) 661-6351   |
| AT&T PROJECT TEAM:                 |   |
| RF ENGINEER:                       | ANTHONY CRUZ<br>AC8314@ATT.COM  |

| PROJECT DESCRIPTION  |  |
|--|--|
| THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY IN THE AREA FOR EMERGENCY SERVICE AND WIRELESS CUSTOMERS.  |  |
| <b>TOWER SCOPE OF WORK</b>   |  |
| <ul style="list-style-type: none"> <li>• INSTALL (1) 80'-0" MONOPINE TOWER</li> <li>• INSTALL (12) ANTENNAS ON (9) MOUNTS</li> <li>• INSTALL (18) RADIOS</li> <li>• INSTALL (3) DC9 FIBER SQUIDS</li> <li>• INSTALL (9) DC POWER TRUNKS</li> <li>• INSTALL (3) FIBER TRUNKS</li> <li>• INSTALL (3) SECTOR MOUNTS</li> </ul>  |  |
| <b>GROUND SCOPE OF WORK</b>  |  |
| <ul style="list-style-type: none"> <li>• INSTALL 33'-0"x33'-0" CMU WALLED COMPOUND</li> <li>• INSTALL (1) 600A GUTTER</li> <li>• INSTALL (1) 200A METER</li> <li>• INSTALL (1) 17'-7"x10'-4" CONCRETE PAD</li> <li>• INSTALL (1) WALK-UP-CABINET (WUC)</li> <li>• INSTALL (1) 30 KW DIESEL GENERATOR</li> <li>• INSTALL (1) GROUND LEVEL DC50 SPD</li> <li>• INSTALL (1) 200A PTLK WITH CAMLOC</li> <li>• INSTALL (1) 30"x30"x12" HOFFMAN BOX WITH CIENA ABOVE</li> <li>• INSTALL (1) 50"x52" CONCRETE PAD FOR PRIMARY TRANSFORMER</li> <li>• INSTALL (8) BATTERIES</li> </ul> |  |
| <b>HAZARDOUS MATERIALS</b>   |  |
| <ul style="list-style-type: none"> <li>• ELECTROLYTE IN BATTERIES (DETAILS ON C-6)</li> </ul>  |  |

| 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: |                   |
| CODE TYPE   | CODE              |
| BUILDING  | 2022 CBC/2021 IBC |
| MECHANICAL  | 2022 CMC/2021 UMC |
| ELECTRICAL  | 2022 CEC/2020 NEC |
| STRUCTURAL  | EIA/TIA-222-H     |
| <b>REFERENCE DOCUMENTS:</b>   |                   |
| RFDS VERSION: 1.02<br>DATE UPDATED: 10/19/2022  |                   |
|   |                   |
| <b>CALL CALIFORNIA ONE CALL</b><br><b>(800) 227-2600</b><br><b>CALL 3 WORKING DAYS</b><br><b>BEFORE YOU DIG!</b>  |                   |

| ISSUED FOR: |          |      |             |     |
|-------------|----------|------|-------------|-----|
| REV         | DATE     | DRWN | DESCRIPTION | QA  |
| D           | 12-09-22 | 550  | ZONING      | HMM |
| E           | 01-10-23 | 550  | ZONING      | HMM |
| F           | 06-03-23 | CAM  | ZONING      | HMM |
| G           | 11-16-23 | SJA  | ZONING      | HMM |
| H           | 07-18-24 | GSM  | ZONING      | HMM |



**SHEET TITLE:**  
TITLE SHEET

**SHEET NUMBER:** T-1  
**REVISION:** H

**TEP #:** 314190.336174

# PROJECT NOTES:

- ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED PUBLIC SAFETY TOWERS, LLC OR ITS DESIGNATED REPRESENTATIVE.
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN THE PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING TO HAVE SUFFICIENT EXPERIENCE AND ABILITY, IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE THE TOWER IS LOCATED.
- THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H AND CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTION SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OF CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTIONS OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK. RENTAL CHARGES, SAFETY, PROTECTION, AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE OWNER PROJECT MANAGER. THIS INCLUDES ALL SPECIFIC MILITARY INSTALLATION INSTRUCTIONS INCLUDING STAFF ACCESS AND GATE SPECIFIC INSTRUCTIONS.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER AS WELL AS ANY REQUIRED NOTICES SPECIFIC TO THE MILITARY INSTITUTION.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIALS SHALL BE REWORKED OR REPLACED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
- THE OWNER OR OWNERS REPRESENTATIVE SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

- ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
- TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH OWNER SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO OWNER PRIOR TO THE START OF THE WORK ON THE PROJECT.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO THE SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL OR EQUIVALENT, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING THE PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.
- THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF RETAINAGE. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
- THE CONTRACTOR SHALL PROVIDE DAILY UPDATES IN THE FORM OF WRITTEN NOTIFICATION VIA EMAIL OR APP PHOTOS TO THE BOINGO CONSTRUCTION MANAGER.

# UTILITY NOTES:

- APPLY FOR THE UTILITY SERVICE (ELECTRIC) NO LATER THAN THE NEXT BUSINESS DAY FOLLOWING AWARD OF CONTRACT. COORDINATE WITH THE ELECTRIC UTILITY COMPANY FOR EXACT TRANSFORMER LOCATION, METERING REQUIREMENTS, AND THE SERVICE ROUTING. COORDINATE WITH THE TELEPHONE UTILITY COMPANY FOR EXACT TELEPHONE REQUIREMENTS AND ROUTING OF SERVICE.
- ALL UTILITY RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE UTILITY REQUIREMENTS. FIELD TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT UTILITIES AND LOCATOR SERVICE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TRENCHING AND CONDUITS AS SHOWN OR AS REQUIRED BY LOCAL UTILITY.
- NO PENETRATIONS TO THE TOWER FOUNDATION OF ANY KIND.



**PUBLIC SAFETY TOWERS**  
COMPANY

1903 WRIGHT PLACE, SUITE 140  
CARLSBAD, CA 92008



**AT&T**

5005 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



**TOWER ENGINEERING PROFESSIONALS**  
4710 E ELWOOD ST, STE 9  
PHOENIX, AZ 85040  
OFFICE: (480) 285-0036  
www.tepgroup.net

**FIRSTNET/AT&T ID: CCL05539**  
**ALVARADO ST & CALLAWAY ST**

**PSTC #: CANC-SLEAN01**  
**440 PERALTA**


**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**

**PROPOSED 80'-0"**  
**MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
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| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**



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

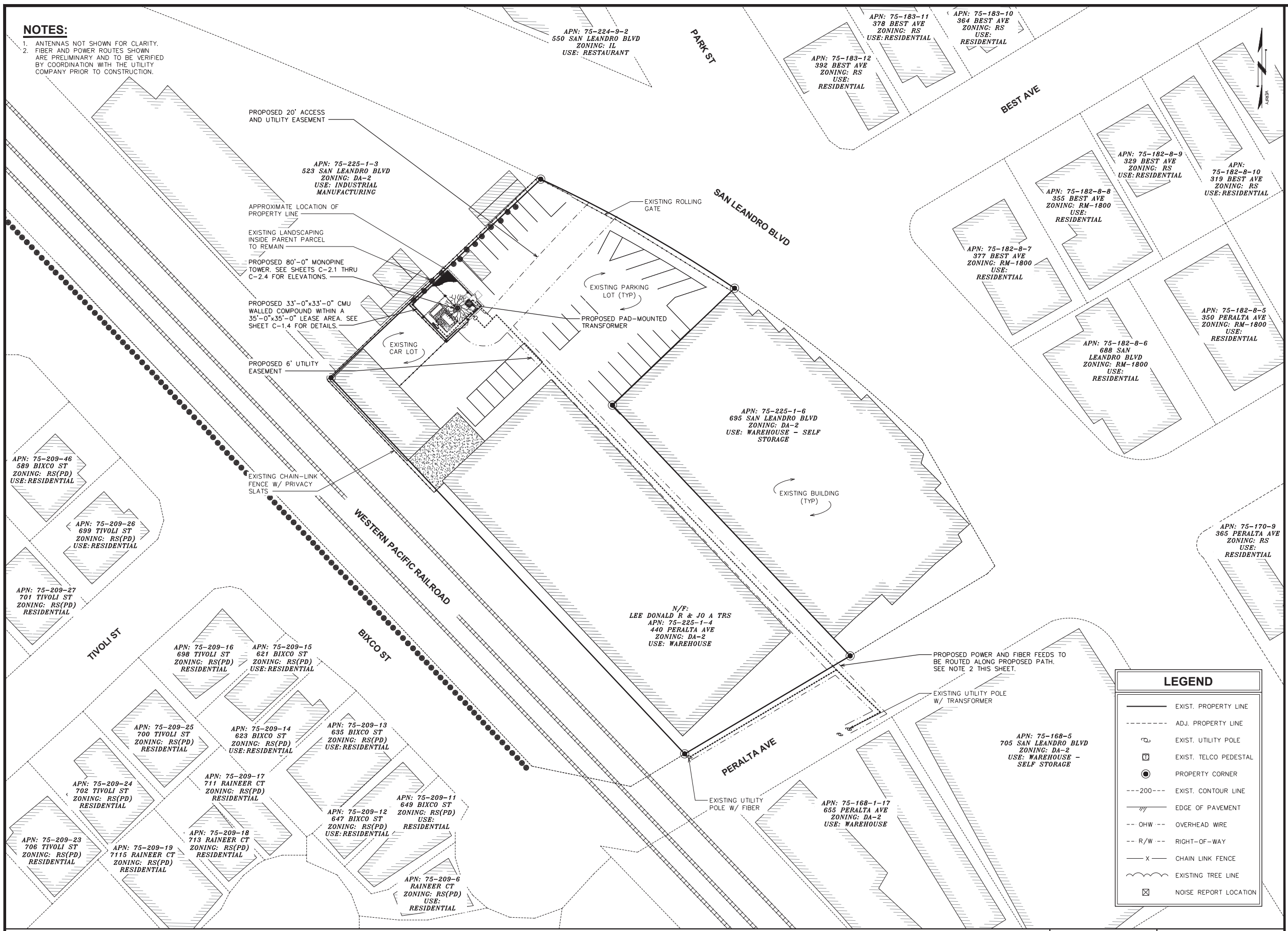
**SHEET TITLE:**

**GENERAL NOTES**

**SHEET NUMBER:** **GN-1**      **REVISION:** **H**

**TEP #:** 314190.336174

**NOTES:**  
 1. ANTENNAS NOT SHOWN FOR CLARITY.  
 2. FIBER AND POWER ROUTES SHOWN ARE PRELIMINARY AND TO BE VERIFIED BY COORDINATION WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.



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**SEAL:**

**ZONING**  
DO NOT USE FOR CONSTRUCTION

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**SHEET TITLE:**  
**OVERALL SITE PLAN**

**SHEET NUMBER:**  
**C-1.1**

**REVISION:**  
**H**

**TEP #:** 314190.336174

**LEGEND**

|  |                       |
|--|-----------------------|
|  | EXIST. PROPERTY LINE  |
|  | ADJ. PROPERTY LINE    |
|  | EXIST. UTILITY POLE   |
|  | EXIST. TELCO PEDESTAL |
|  | PROPERTY CORNER       |
|  | EXIST. CONTOUR LINE   |
|  | EDGE OF PAVEMENT      |
|  | OVERHEAD WIRE         |
|  | RIGHT-OF-WAY          |
|  | CHAIN LINK FENCE      |
|  | EXISTING TREE LINE    |
|  | NOISE REPORT LOCATION |

**1 OVERALL SITE PLAN**

SCALE: 1" = 30' (24x36)  
 SCALE: 1" = 60' (11x17)  
 0 30 60  
 SCALE IN FEET

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APN: 75-225-1-3  
 523 SAN LEANDRO BLVD  
 ZONING: DA-2  
 USE: INDUSTRIAL MANUFACTURING

APN: 75-182-8-7  
 377 BEST AVE  
 ZONING: RM-1800  
 USE: RESIDENTIAL

APN: 75-225-1-6  
 695 SAN LEANDRO BLVD  
 ZONING: DA-2  
 USE: WAREHOUSE - SELF STORAGE

N/F:  
 LEE DONALD R & JO A TRS  
 APN: 75-225-1-4  
 440 PERALTA AVE  
 ZONING: DA-2  
 USE: WAREHOUSE

EXISTING GARAGE AND STORAGE AREA

EXISTING CHAIN-LINK FENCE W/ PRIVACY SLATS

EXISTING STORAGE CONTAINER TO REMAIN (TYP)  
 EXISTING LANDSCAPING TO REMAIN

APPROXIMATE LOCATION OF PROPERTY LINE  
 APPROXIMATELY 4 PARKING SPOTS TO BE REMOVED. ASPHALT TO BE REMOVED AS REQUIRED DURING CONSTRUCTION.

EXISTING CHAIN-LINK FENCE AREA

EXISTING PARKING LOT (TYP)

EXISTING ROLLING GATE

EXISTING BUILDING (TYP)



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SEAL:



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SHEET TITLE:  
**EXISTING SITE PLAN**

SHEET NUMBER: **C-1.2**      REVISION: **H**

TEP #: 314190.336174

**LEGEND**

|             |                       |
|-------------|-----------------------|
| —           | EXIST. PROPERTY LINE  |
| - - -       | ADJ. PROPERTY LINE    |
| ⊙           | EXIST. UTILITY POLE   |
| ⊞           | EXIST. TELCO PEDESTAL |
| ●           | PROPERTY CORNER       |
| - - -200-   | EXIST. CONTOUR LINE   |
| ///         | EDGE OF PAVEMENT      |
| - - OHW - - | OVERHEAD WIRE         |
| - - R/W - - | RIGHT-OF-WAY          |
| - x -       | CHAIN LINK FENCE      |
| ~ ~ ~       | EXISTING TREE LINE    |
| ⊠           | NOISE REPORT LOCATION |

1 EXISTING OVERALL SITE PLAN

SCALE: 1" = 20' (24x36)  
 SCALE: 1" = 40' (11x17)  
 0 20 40  
 SCALE IN FEET

**NOTES:**  
 1. ANTENNAS NOT SHOWN FOR CLARITY.  
 2. FIBER AND POWER ROUTES SHOWN ARE PRELIMINARY AND TO BE VERIFIED BY COORDINATION WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.

APN: 75-225-1-3  
 523 SAN LEANDRO BLVD  
 ZONING: DA-2  
 USE: INDUSTRIAL MANUFACTURING

APN: 75-182-8-7  
 377 BEST AVE  
 ZONING: RM-1800  
 USE: RESIDENTIAL

APN: 75-225-1-6  
 695 SAN LEANDRO BLVD  
 ZONING: DA-2  
 USE: WAREHOUSE - SELF STORAGE

N/F:  
 LEE DONALD R & JO A TRS  
 APN: 75-225-1-4  
 440 PERALTA AVE  
 ZONING: DA-2  
 USE: WAREHOUSE

APN: 75-209-15  
 621 BIXCO ST  
 ZONING: RS(PD)  
 USE: RESIDENTIAL

APN: 75-209-14  
 623 BIXCO ST  
 ZONING: RS(PD)  
 USE: RESIDENTIAL

APN: 75-209-13  
 635 BIXCO ST  
 ZONING: RS(PD)  
 USE: RESIDENTIAL

PROPOSED 20' ACCESS AND UTILITY EASEMENT  
 EXISTING STORAGE CONTAINER BY OTHERS  
 APPROXIMATE LOCATION OF PROPERTY LINE  
 PROPOSED 80'-0" MONOPINE TOWER. SEE SHEETS C-2.1 THRU C-2.4 FOR ELEVATIONS.  
 LOCATION 1  
 PROPOSED FIRSTNET/AT&T EQUIPMENT (TYP)  
 PROPOSED 33'-0"x33'-0" CMU WALLED COMPOUND WITHIN A 35'-0"x35'-0" LEASE AREA. SEE SHEET C-1.4 FOR DETAILS.

LOCATION 2

LOCATION 3  
 LOCATION 4

**CALCULATED SITE NOISE (AMBIENT) (dB)**

| LOCATION   | MEASURED BASELINE | W/ PROP EQUIPMENT W/O GEN | W/ PROP EQUIPMTN W/ GEN |
|------------|-------------------|---------------------------|-------------------------|
| LOCATION 1 | 49.0              | 49.4                      | 65'                     |
| LOCATION 2 | 52.0              | 52.0                      | 65'                     |
| LOCATION 3 | 53.0              | 53.0                      | 65'                     |
| LOCATION 4 | 53.0              | 53.0                      | 65'                     |

**LEGEND**

- EXIST. PROPERTY LINE
- - - ADJ. PROPERTY LINE
- ⊙ EXIST. UTILITY POLE
- ⊞ EXIST. TELCO PEDESTAL
- PROPERTY CORNER
- - -200- - - EXIST. CONTOUR LINE
- /// EDGE OF PAVEMENT
- - OHW - - OVERHEAD WIRE
- - R/W - - RIGHT-OF-WAY
- X - CHAIN LINK FENCE
- ~ EXISTING TREE LINE
- ⊠ NOISE REPORT LOCATION

PROPOSED 6' UTILITY EASEMENT

PROPOSED POWER AND FIBER FEEDS TO BE ROUTED ALONG PROPOSED PATH. SEE NOTE 2 THIS SHEET.

EXISTING UTILITY POLE W/ TRANSFORMER  
 EXISTING UTILITY POLE W/ FIBER

1 FINAL OVERALL SITE PLAN

SCALE: 1" = 20' (24x36)  
 SCALE: 1" = 40' (11x17)  
 0 20 40  
 SCALE IN FEET

**PUBLIC SAFETY TOWERS COMPANY**  
 1903 WRIGHT PLACE, SUITE 140  
 CARLSBAD, CA 92008

**AT&T**  
 5005 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

**TOWER ENGINEERING PROFESSIONALS**  
 4710 E ELWOOD ST, STE 9  
 PHOENIX, AZ 85040  
 OFFICE: (480) 285-0036  
 www.tepgroup.net

**FIRSTNET/AT&T ID: CCL05539**  
**ALVARADO ST & CALLAWAY ST**  
**PSTC #: CANC-SLEAN01**  
**440 PERALTA**  
**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**  
**PROPOSED 80'-0" MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

**ZONING**  
 DO NOT USE FOR CONSTRUCTION

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**SHEET TITLE:**  
**FINAL SITE PLAN**

**SHEET NUMBER:**  
**C-1.3**

**REVISION:**  
**H**

**TEP #:** 314190.336174

**NOTES:**

1. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
2. CONTRACTOR TO ENSURE THAT ALL FIRSTNET/AT&T EQUIPMENT IS INSTALLED INSIDE FIRSTNET/AT&T'S LEASE AREA, INCLUDING BUT NOT LIMITED TO, EQUIPMENT CABINETS, UTILITY CABINETS, H-FRAMES, ETC.
3. ANTENNAS NOT SHOWN FOR CLARITY.
4. NO ADDITIONAL LIGHTING PROPOSED FOR TOWER OR COMPOUND APART FROM PROPOSED WORKLIGHT ON H-FRAME.
5. LANDSCAPING NOT SHOWN ON THIS SHEET FOR CLARITY. REFER TO SHEETS C-1.3 AND C-2.1-4 FOR LANDSCAPING DETAILS.

PROPOSED PLANTER WITH TRELLIS CONTAINING LIVING VINES FOR SCREENING ALONG NORTHEASTERN COMPOUND WALL

PROPOSED GRAVEL WITHIN COMPOUND

PROPOSED CABLE DOG HOUSE

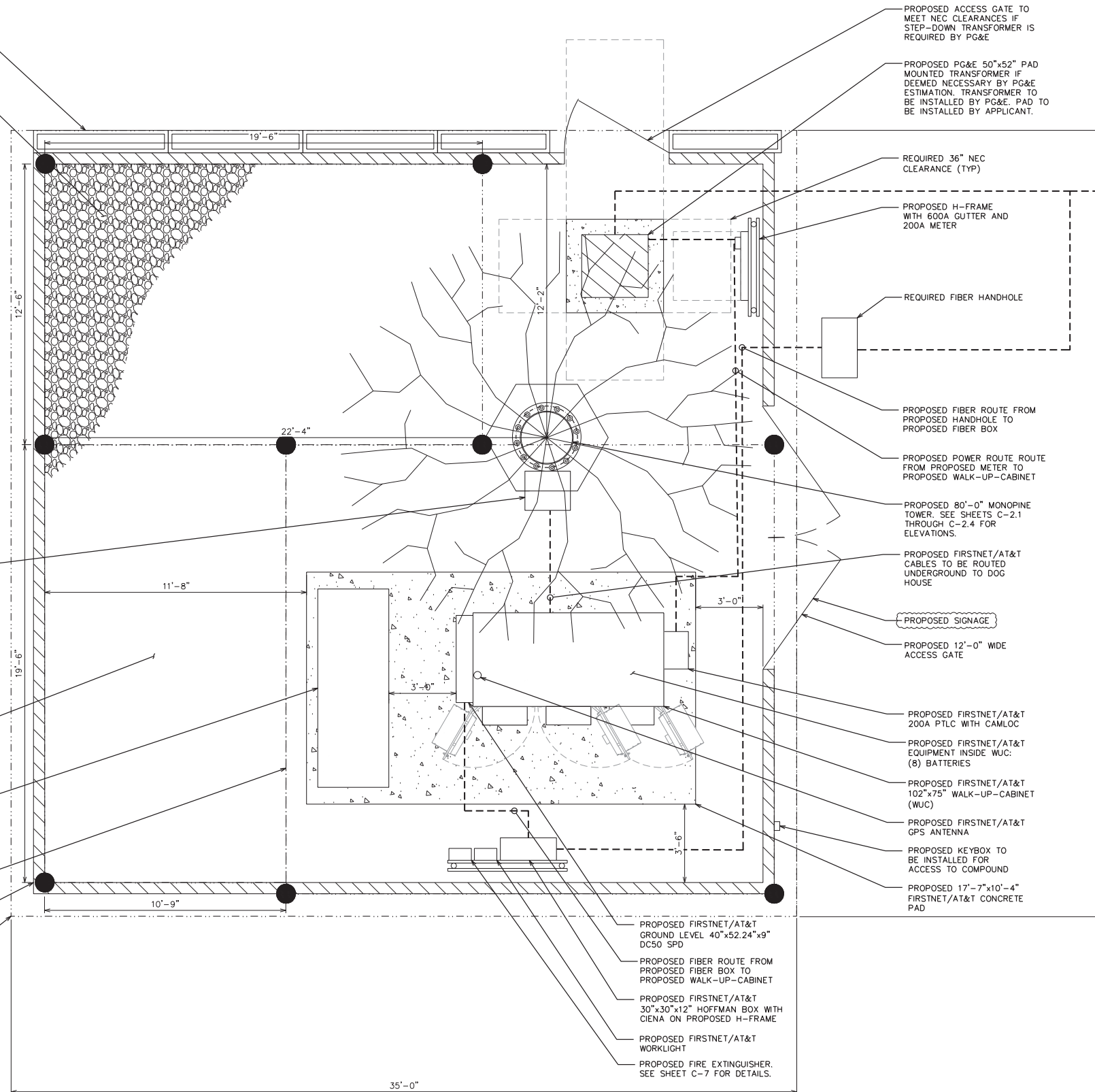
PROPOSED LEASE AREA FOR FUTURE CARRIERS (TYP OF 2)

PROPOSED FIRSTNET/AT&T 106'x38'x84" GENERATOR

PROPOSED 435 SQ. FT FIRSTNET/AT&T LEASE AREA

PROPOSED 33'-0"x33'-0" CMU WALLED COMPOUND

PROPOSED 35'-0"x35'-0" PSTC LEASE AREA



PROPOSED ACCESS GATE TO MEET NEC CLEARANCES IF STEP-DOWN TRANSFORMER IS REQUIRED BY PG&E

PROPOSED PG&E 50"x52" PAD MOUNTED TRANSFORMER IF DEEMED NECESSARY BY PG&E ESTIMATION. TRANSFORMER TO BE INSTALLED BY PG&E. PAD TO BE INSTALLED BY APPLICANT.

REQUIRED 36" NEC CLEARANCE (TYP)

PROPOSED H-FRAME WITH 600A GUTTER AND 200A METER

REQUIRED FIBER HANDHOLE

PROPOSED FIBER ROUTE FROM PROPOSED HANDHOLE TO PROPOSED FIBER BOX

PROPOSED POWER ROUTE FROM PROPOSED METER TO PROPOSED WALK-UP-CABINET

PROPOSED 80'-0" MONOPINE TOWER. SEE SHEETS C-2.1 THROUGH C-2.4 FOR ELEVATIONS.

PROPOSED FIRSTNET/AT&T CABLES TO BE ROUTED UNDERGROUND TO DOG HOUSE

PROPOSED SIGNAGE

PROPOSED 12'-0" WIDE ACCESS GATE

PROPOSED FIRSTNET/AT&T 200A PTLC WITH CAMLOC

PROPOSED FIRSTNET/AT&T EQUIPMENT INSIDE WUC: (8) BATTERIES

PROPOSED FIRSTNET/AT&T 102"x75" WALK-UP-CABINET (WUC)

PROPOSED FIRSTNET/AT&T GPS ANTENNA

PROPOSED KEYBOX TO BE INSTALLED FOR ACCESS TO COMPOUND

PROPOSED 17'-7"x10'-4" FIRSTNET/AT&T CONCRETE PAD

PROPOSED FIRSTNET/AT&T GROUND LEVEL 40"x52.24"x9" DC50 SPD

PROPOSED FIBER ROUTE FROM PROPOSED FIBER BOX TO PROPOSED WALK-UP-CABINET

PROPOSED FIRSTNET/AT&T 30"x30"x12" HOFFMAN BOX WITH CIENA ON PROPOSED H-FRAME

PROPOSED FIRSTNET/AT&T WORKLIGHT

PROPOSED FIRE EXTINGUISHER. SEE SHEET C-7 FOR DETAILS.

**PUBLIC SAFETY TOWERS COMPANY**  
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 www.tepgroup.net

**FIRSTNET/AT&T ID: CCL05539**  
**ALVARADO ST & CALLAWAY ST**  
**PSTC #: CANC-SLEAN01**  
**440 PERALTA**  
**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**  
**PROPOSED 80'-0" MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | 550  | ZONING      | HMM |
| E   | 01-10-23 | 550  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

**ZONING**  
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**SHEET TITLE:**  
**COMPOUND LAYOUT**

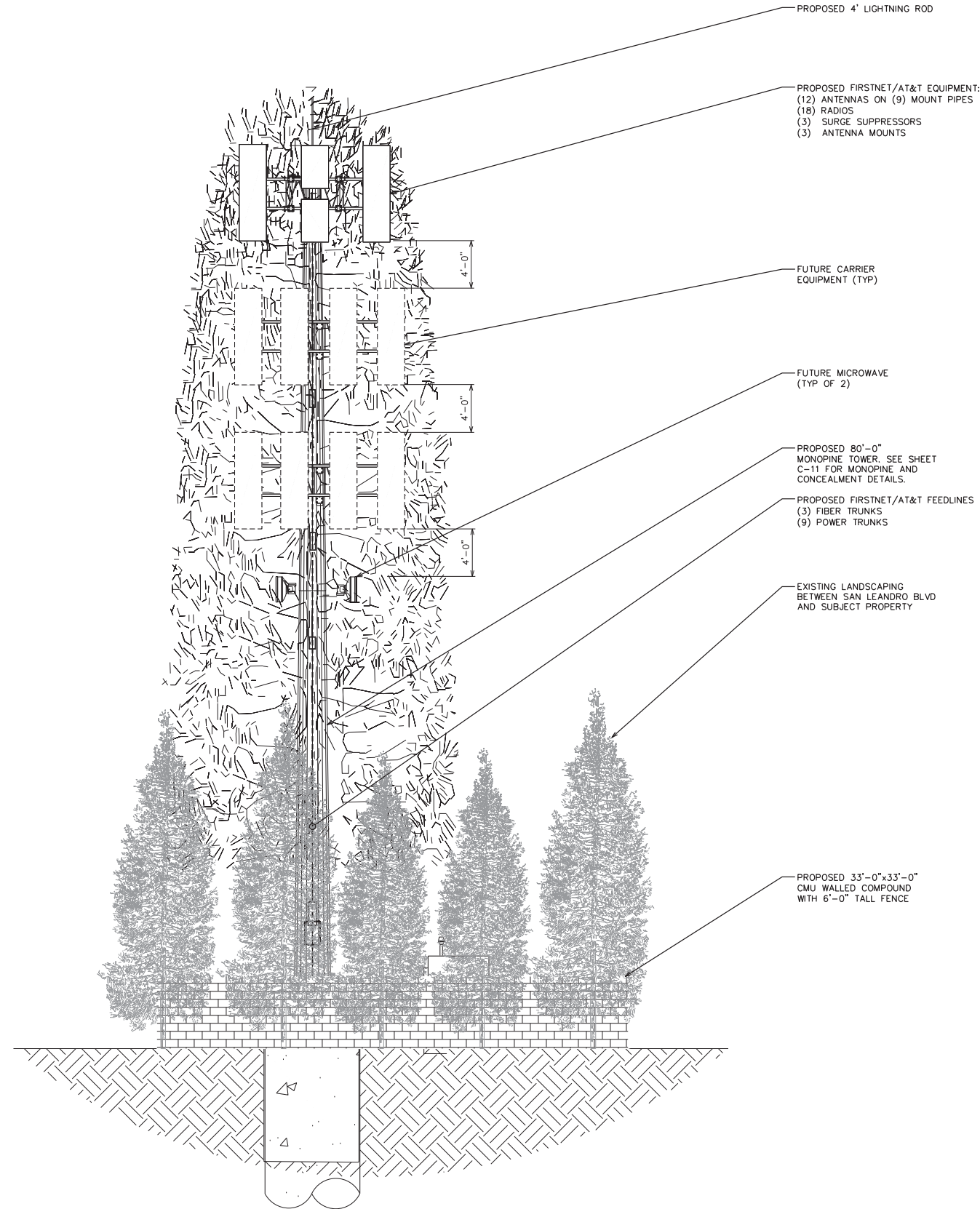
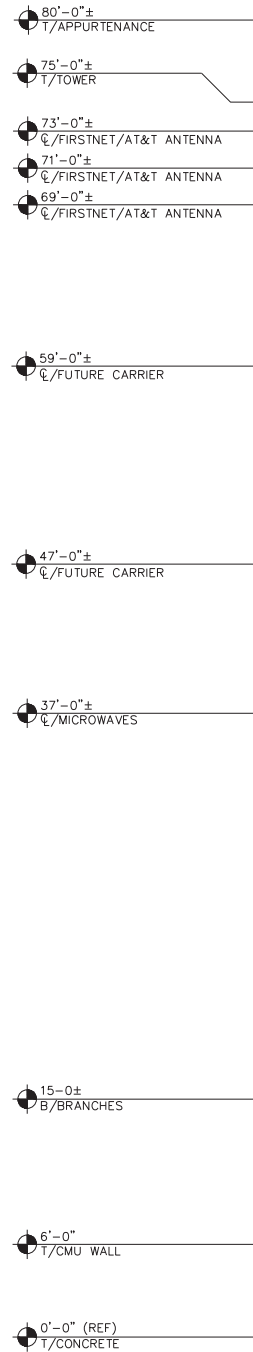
**SHEET NUMBER:**  
**C-1.4**

**REVISION:**  
**H**

**TEP #:** 314190.336174

**NOTES:**

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



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**440 PERALTA**

**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**

**PROPOSED 80'-0" MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
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| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

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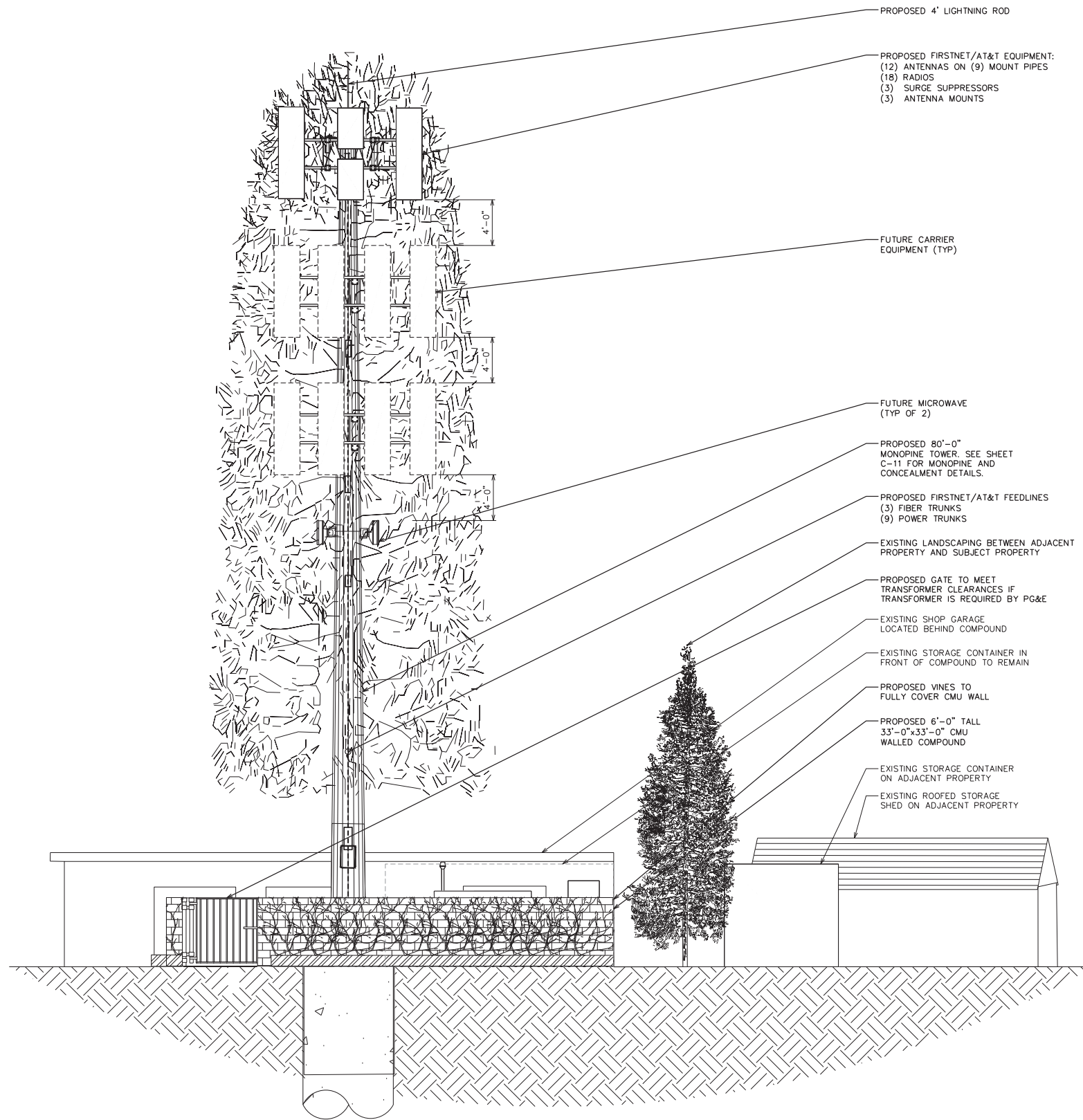
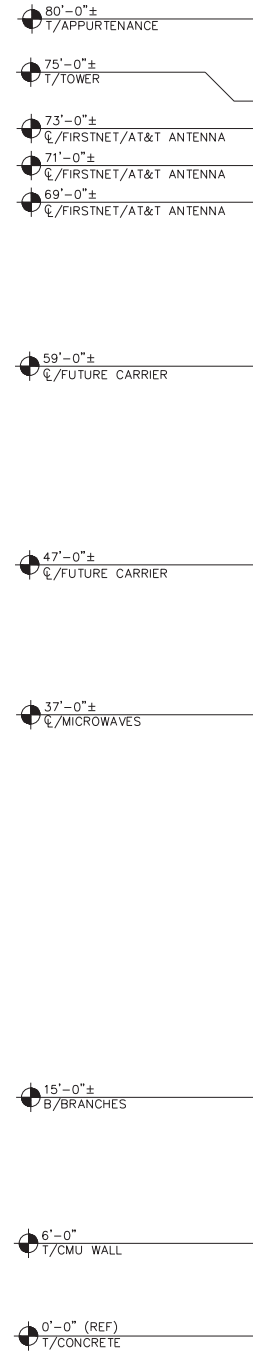
**SHEET TITLE:**  
**FINAL NORTHWEST (BIXCO ST) ELEVATION**

**SHEET NUMBER:** **C-2.1**      **REVISION:** **H**

**TEP #:** 314190.336174

**NOTES:**

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



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**PSTC #: CANC-SLEAN01**  
**440 PERALTA**

**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**

**PROPOSED 80'-0" MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

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**SHEET TITLE:**  
**FINAL NORTHEAST**  
**(SAN LEANDRO BLVD)**  
**ELEVATION**

**SHEET NUMBER:**  
**C-2.2**

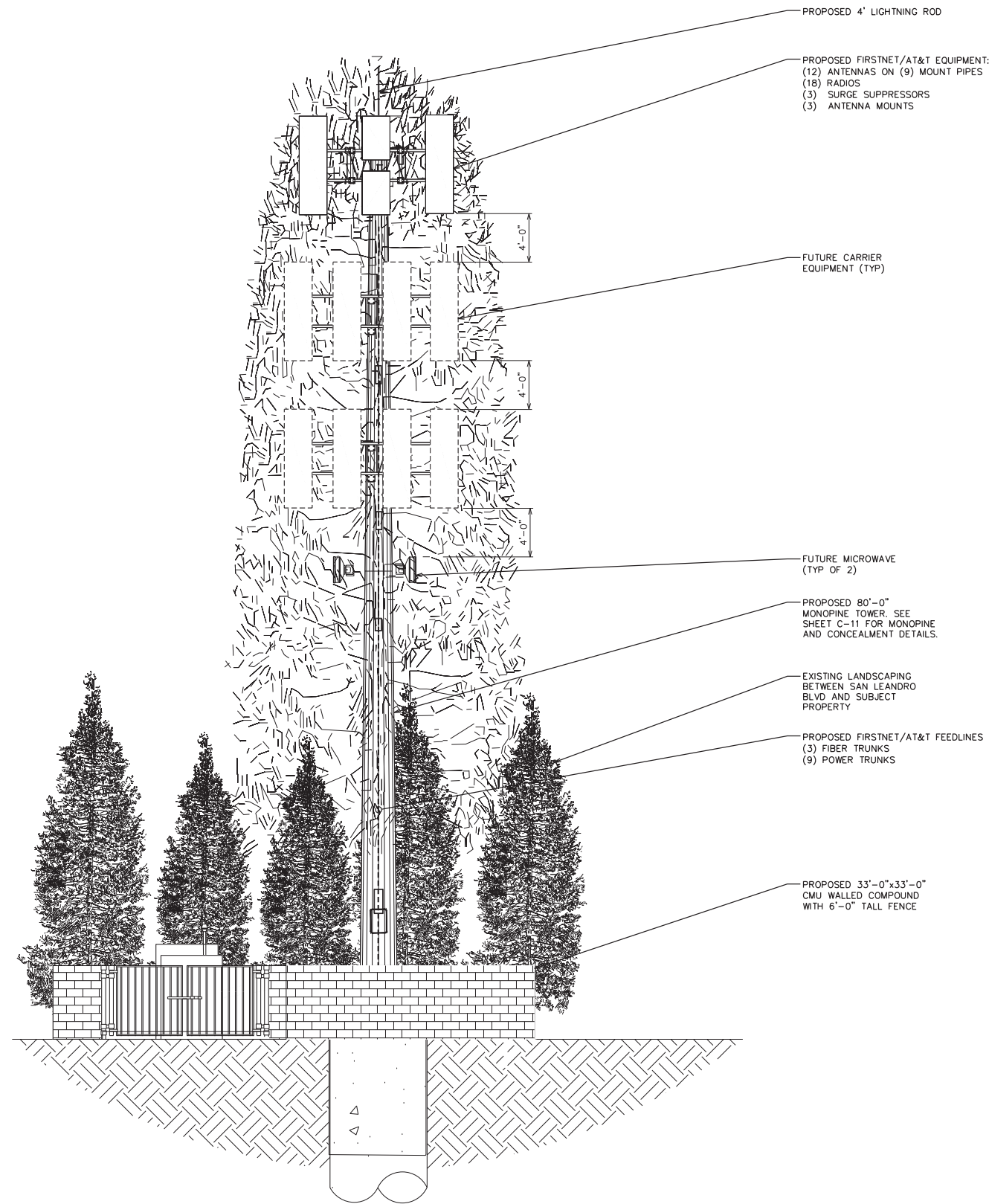
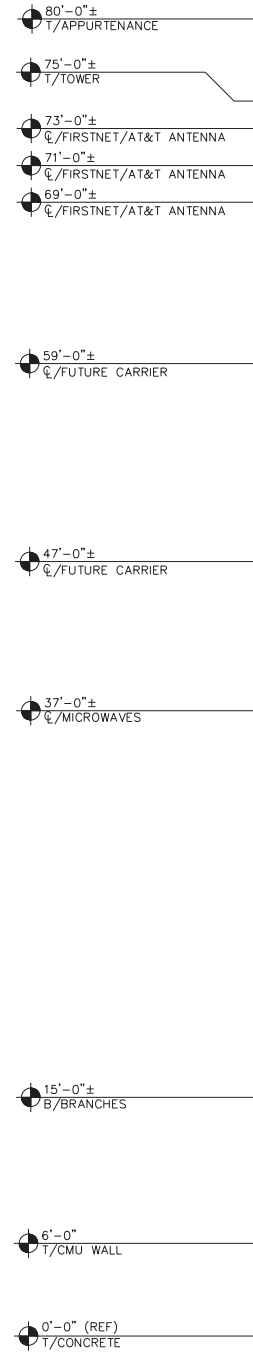
**REVISION:**  
**H**

**TEP #:** 314190.336174



**NOTES:**

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



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FIRSTNET/AT&T ID: CCL05539  
ALVARADO ST & CALLAWAY ST

PSTC #: CANC-SLEAN01  
440 PERALTA

440 PERALTA AVENUE  
SAN LEANDRO, CA 94577  
(ALAMEDA COUNTY)

PROPOSED 80'-0"  
MONOPINE TOWER

ISSUED FOR:

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

SEAL:

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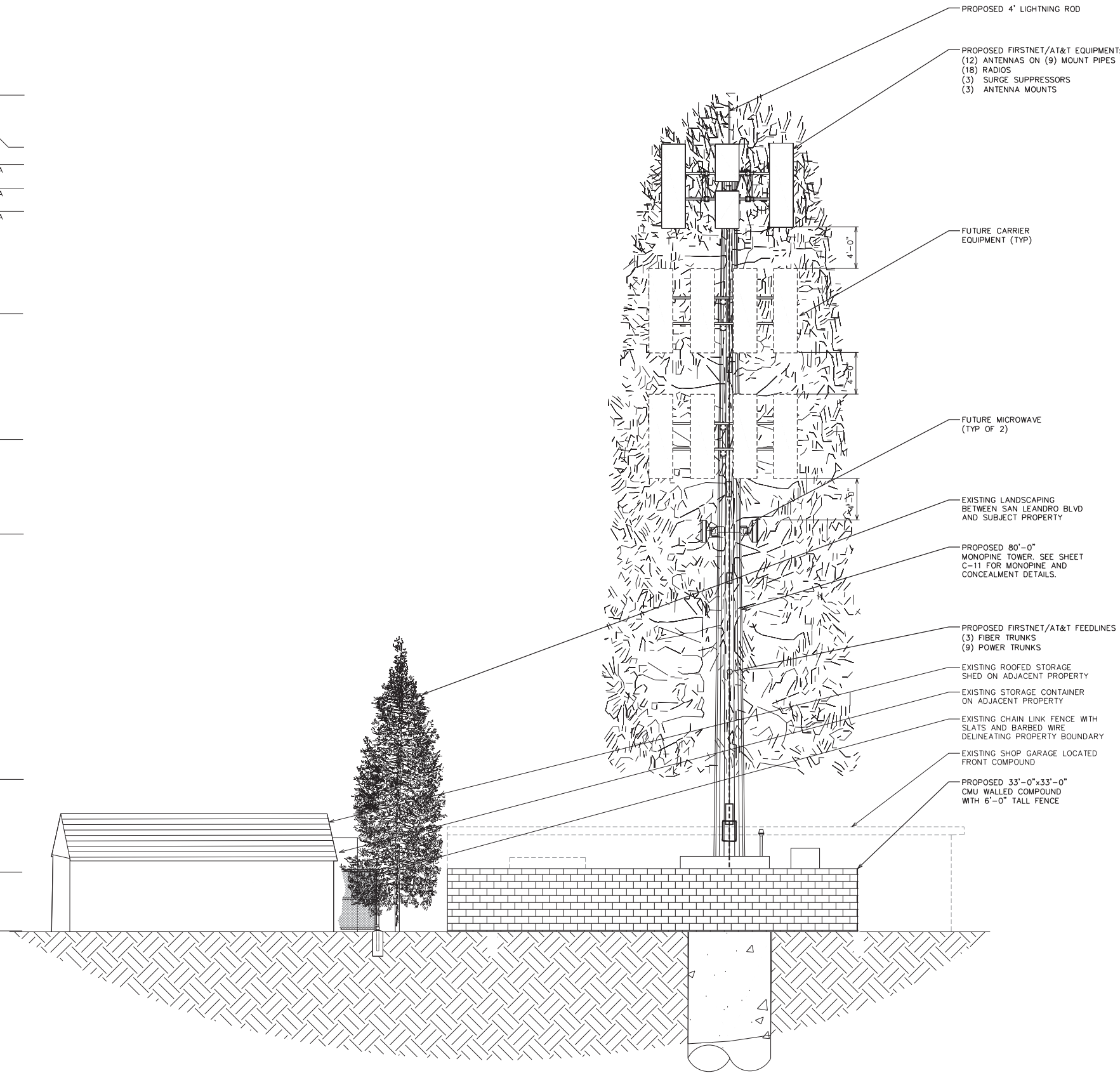
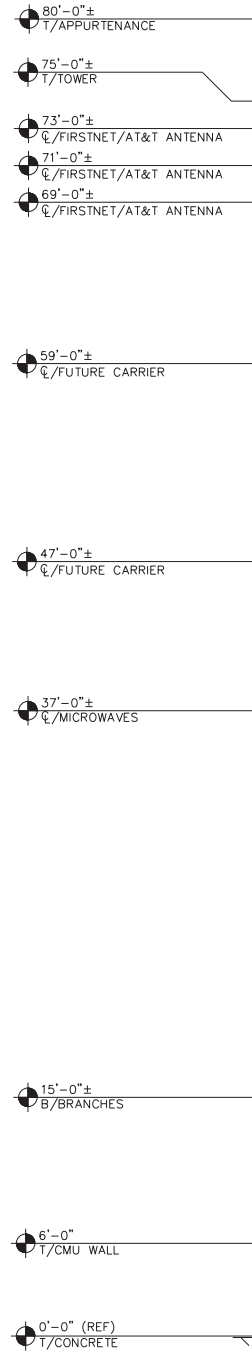
SHEET TITLE:  
FINAL SOUTHEAST  
(PERALTA AVE)  
ELEVATION

SHEET NUMBER: **C-2.3** REVISION: **H**

TEP #: 314190.336174

**NOTES:**

- PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
- TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
- CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.
- COMPOUND WALL AND TOWER WOULD HAVE LITTLE TO NO VISIBILITY FROM BIXCO ST GIVEN THE SCREENING OF EXISTING TREES, OVERHEAD RAIL, AND EXISTING BUILDINGS.



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**PSTC #: CANC-SLEAN01**  
**440 PERALTA**

**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**

**PROPOSED 80'-0"**  
**MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | 550  | ZONING      | HMM |
| E   | 01-10-23 | 550  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | 5JA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

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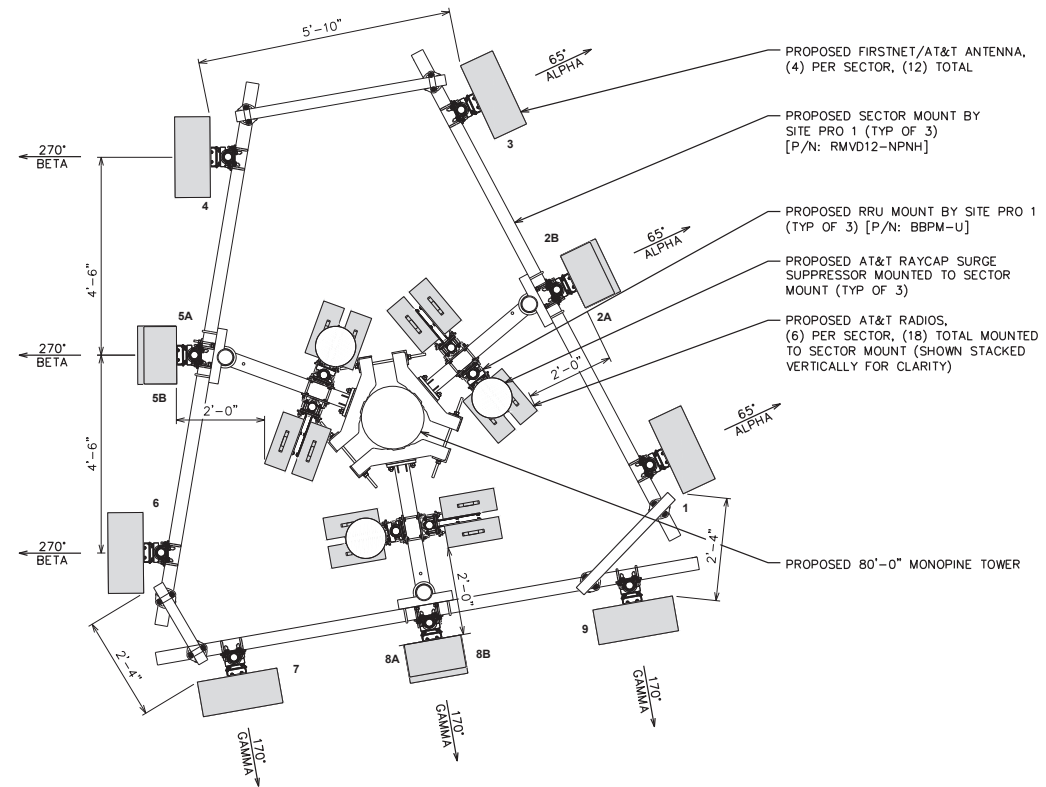
**SHEET TITLE:**  
**FINAL SOUTHWEST ELEVATION**

**SHEET NUMBER:**  
**C-2.4**

**REVISION:**  
**H**

**TEP #:** 314190.336174

**NOTE:**  
TEP DID NOT ANALYZE THE PROPOSED MOUNT SHOWN.



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**PSTC #: CANC-SLEAN01**  
**440 PERALTA**

**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**

**PROPOSED 80'-0" MONOPINE TOWER**

**1 FINAL ANTENNA LAYOUT**

SCALE: 1/2" = 1'-0" (24x36)  
SCALE: 1/4" = 1'-0" (11x17)  
SCALE IN FEET

| FINAL ANTENNA/FEEDLINE SCHEDULE |      |                         |                 |              |   |              |  |
|---------------------------------|------|-------------------------|-----------------|--------------|---|--------------|--|
| SECTOR                          | POS. | MANUFACTURER (MODEL #)  | MOUNTING HEIGHT | AZIMUTH (TN) | CABLE SIZE                              | CABLE LENGTH | OVP/RRH/TMA/DIPLEXER [MODEL #]   |
| ALPHA                           | 1    | QUINTEL (QD6612-3D)     | ☉ @ 71'-0"±     | 65°          | (9) DC POWER TRUNKS<br>(3) FIBER TRUNKS | 121'±        | (1) RADIO 4449 B5/B12<br>(1) RADIO 8843 B2/B66A<br>(1) RADIO 4478 B14<br>(1) RADIO 2012 B29<br>(1) RADIO 4415 B30<br>(1) DC9-48-60-24-8C-EV<br>(1) RADIO 4426 B66 (FUTURE) |
| ALPHA                           | 2A   | ERICSSON (AIR6449 B77D) | ☉ @ 69'-0"±     | 65°          |   |              |  |
| ALPHA                           | 2B   | ERICSSON (AIR6419 B77C) | ☉ @ 73'-0"±     | 65°          |   |              |  |
| ALPHA                           | 3    | QUINTEL (QD6616-7)      | ☉ @ 71'-0"±     | 65°          |   |              |  |
| BETA                            | 4    | QUINTEL (QD6612-3D)     | ☉ @ 71'-0"±     | 270°         |   |              |  |
| BETA                            | 5A   | ERICSSON (AIR6449 B77D) | ☉ @ 69'-0"±     | 270°         |   |              |  |
| BETA                            | 5B   | ERICSSON (AIR6419 B77C) | ☉ @ 73'-0"±     | 270°         |   |              |  |
| BETA                            | 6    | QUINTEL (QD6616-7)      | ☉ @ 71'-0"±     | 270°         |   |              |  |
| GAMMA                           | 7    | QUINTEL (QD6612-3D)     | ☉ @ 71'-0"±     | 170°         |   |              |  |
| GAMMA                           | 8A   | ERICSSON (AIR6449 B77D) | ☉ @ 69'-0"±     | 170°         |   |              |  |
| GAMMA                           | 8B   | ERICSSON (AIR6419 B77C) | ☉ @ 73'-0"±     | 170°         |   |              |  |
| GAMMA                           | 9    | QUINTEL (QD6616-7)      | ☉ @ 71'-0"±     | 170°         |   |              |  |

\*EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE

**2 FINAL ANTENNA SCHEDULE**

SCALE: N.T.S.

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 08-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

**ZONING**  
DO NOT USE FOR CONSTRUCTION

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**SHEET TITLE:**  
**FINAL ANTENNA LAYOUT & SCHEDULE**

**SHEET NUMBER:**  
**C-3**

**REVISION:**  
**H**

**TEP #:** 314190.336174

2.2 System Configuration

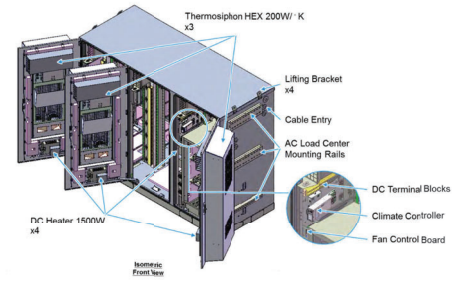
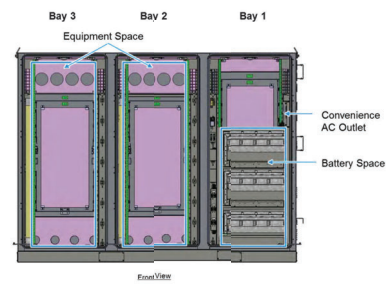


Figure 2-2 Multi-Bay Cabinet (Front View)

2.3 Cabinet Specifications

The cabinet is arranged for installation of a Delta or third-party AC Load Center and front access DC Power System. Table 2-1 below contains the input power specifications.

| Item                       | Specification/Function   |
|----------------------------|--|
| <b>AC Input Range</b>      |  |
| AC Input Voltage           | 1W+N+FG 10C-120V <sub>AC</sub>   |
| AC Input Current (maximum) | 12A (Max.)   |
| AC Input Frequency         | 50/60Hz  |
| <b>DC Input Range</b>      |  |
| DC Input Voltage           | 40 - 60V <sub>DC</sub> (54V typical)   |
| DC Input Current Rating    | 224A (max)   |
| <b>Battery Section</b>     |  |
| Battery Trays              | (3) Trays arranged for -48V battery strings, designed for:<br>GNB Marathon M12V180FT<br>Energys SBS190F<br>Energys SBS170F |
| <b>Climate Control</b>     |  |
| Control & Supervisor Unit  | Delta controller   |
| Cooling                    | (3) 200W/K Thermosiphon HEX<br>Cooling Capacity 9.1kW<br>Maintains equipment inlet <65°C with exterior ambient <46°C       |
| Heating                    | (4) 1500W DC Heaters   |
| <b>Environmental</b>       |  |
| Operating Temperature      | -40°C to +46°C (-40°F to +115°F)   |
| Storage Temperature        | -40°C to +75°C (-40°F to +167°F)   |
| Relative Humidity          | >-95% Relative Humidity, Non-Condensing  |
| Altitude                   | -100 feet to +10,000 feet  |
| Acoustic noise             | ≤ 65dBA @ +40°C equipment inlet  |
| Protection Class           | IP55 (EN 60529)<br>NEBS III (GR-487)   |

2.4 Dimensions and Weight

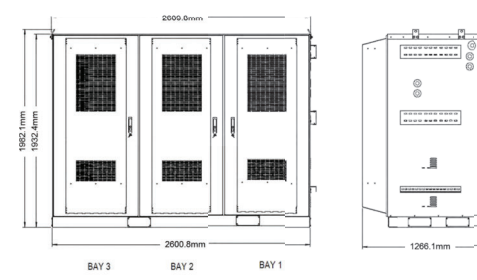


Figure 2-3 Cabinet Dimensions

| Item       | Specification/Function  |
|------------|---|
| Dimensions | 2600.8W x 1932.4H x 1266.1D mm<br>(102"W x 72"H x 49.5"D + 4" plinth) |
| Weight     | 2270* lbs.<br>(* Batteries, Power System and Load Equipment excluded) |



3.6 Cabinet Installation

Use the following steps to install the cabinet.

Step 1 Use the provided Template to mark anchor hole locations.

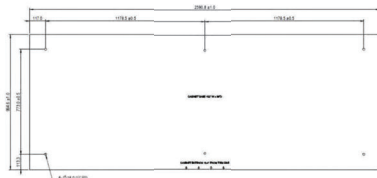


Figure 3-11 Mounting Template

Step 2 Drill anchor holes per specifications from the anchor manufacturer.

Step 3 Install anchors per instructions from the anchor manufacturer.

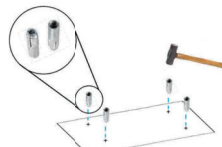


Figure 3-12 Insert anchors

Step 4 Place the pad separator (not provided) on the concrete pad aligned with the mounting holes. (A pad separator provides separation between the concrete pad and the base of the cabinet to prevent corrosion of the cabinet metal.)

Step 5 Mount the cabinet to the concrete pad with anchor bolts, lock washers and flat washers (not provided) per instructions from the anchor manufacturer.

Step 6 Close and secure hinged anchor access covers.

3.8 AC Load Center Installation

The cabinet provides mounting rails for AC Load Center mounting and corresponding cable entry ports for wiring from the AC Load Center into the cabinet. Follow Load Center requirements for installation.

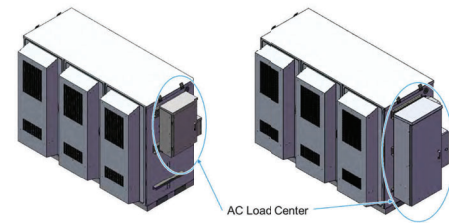


Figure 3-16 Cabinet with AC Load Center

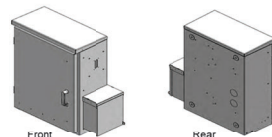


Figure 3-17 AC Load Center - MTS

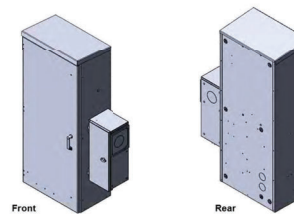


Figure 3-18 AC Load Center - ATS

**Note** The cabinet provides mounting rails and AC cable entry ports arranged for mounting of Intersect PTL-C-MTS-12200-CL or equivalent AC Load Center. An AC Load Center and related fittings are not provided with the cabinet and must be provided as integration or site materials.

Use the following steps to install the Load Center on the cabinet:

Step 1 Provide suitable sealed fittings from the AC Load Center for entry into the Cabinet. Install on the Load Center before installing the Load Center onto the Cabinet. Delta recommends using Size 2" x 4" long outdoor rated pipe nipples and sealing conduit nuts (not provided).

Step 2 Provide Intersect PTL-C-MTS-12200-CL or equivalent AC Load Center. Secure the Load Center to mounting rails per Load Center vendor instructions.

Step 3 Secure and seal fittings from the AC Load Center into entry ports on the cabinet.

Step 4 Confirm the Site Utility and Load Center Main AC input breakers are in the 'off' position.

Step 5 Connect Site Utility 2W+N+G to the Load Center per Load Center vendor instructions, NEC, and local codes.

**Note** Detailed AC Load Center position planning should include future equipment additions and changes.

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(ALAMEDA COUNTY)  
PROPOSED 80'-0"  
MONOPINE TOWER

ISSUED FOR:

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

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SHEET TITLE:  
WALK-UP-CABINET  
DETAILS

SHEET NUMBER: **C-4** REVISION: **H**

TEP #: 314190.336174

NOTES:

- 1. DETAILS SHOWN WERE PROVIDED BY OTHERS AND ARE NOT CARRIED UNDER SIGNATURE AND SEAL OF TOWER ENGINEERING PROFESSIONALS ENGINEERING SERVICES AND/OR ITS ENGINEERS
2. REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR FURTHER DETAILS ON INSTALLATION OF EXTENSION KIT.
3. INSTALL EXHAUST VENT EXTENSION AS REQUIRED TO PROVIDE 12" CLEARANCE FROM GROUND LEVEL IN ACCORDANCE WITH WASHINGTON STATE CODE.
4. FOR OVERFILL AND SPILL PROTECTION GENERATOR INCLUDES AN OVERFILL VALVE, A 5 GALLON SPILL BOX, AND A 5 GALLON SPILL BOX RETURN HOSE.

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

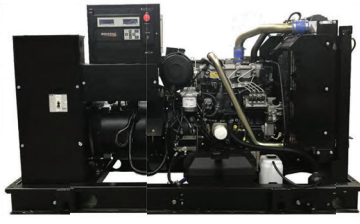
Standby Power Rating 30 kW, 38 kVA, 60 Hz
Prime Power Rating\* 27 kW, 34 kVA, 60 Hz



Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489, UL142
CSA C22.2, ULC S601
BS5514 and DIN 6271
SAE J1349
NFPA 37, 70, 99, 110
NFPA 70, 702, 708
ISO 3046, 7637, 8528, 9001
NEMA ICS10, MG1, 250, ICS6, A1
ANSI C62.41



Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac pensels utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

STANDARD FEATURES

- ENGINE SYSTEM: Oil Drain Extension, Air Cleaner, Level 1 Fan and Belt Guards, Stainless Steel Flexible Exhaust Connection, Factory Filled Oil and Coolant, Radiator Duct Adapter, Critical Silence Enclosure, Engine Coolant Heater
ALTERNATOR SYSTEM: UL2200 GENprotect, Class H Insulation Material, 22 Pitch, Skewed Stator, Brushless Excitation, Sealed Bearings, Rotor Dynamically Spin Balanced, Amortisseur Winding, Full Load Capacity Alternator, Protective Thermal Switch
ENCLOSURE: Rust-Proof Fasteners, High Performance Sound-Absorbing Material, Sealed Doors, Upward Facing Discharge Hoods, Stainless Steel L.H. Lift Off Door Hinges, Stainless Steel Lockable Handles, RhinoCoat
ELECTRICAL SYSTEM: Battery Charging Alternator, Battery Cables, Battery Tray, Rubber-Booted Engine Electrical Connections, Solenoid Activated Starter Motor
CONTROL SYSTEM: Auto/Off/Manual Switch, E-Stop, NFPA110 Level I and II, Customizable Alarms, Modbus Protocol, Predictive Maintenance Algorithm, Sealed Boards, Password Parameter Adjustment Protection, Single Point Ground, 16 Channel Remote Trending, 0.2 msec High Speed Remote Trending, Alarm Information Automatically Announced on the Display
Full System Status Display: Power Output (kW), Power Factor, kW Hours, Total, and Last Run, Real/Reactive/Apparent Power, All Phase AC Voltage, All Phase Currents, Oil Pressure, Coolant Temperature, Coolant Level, Engine Speed, Battery Voltage, Frequency

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

- Program Functions: Programmable Crank Limiter, 7-Day Programmable Exerciser, Special Applications Programmable Logic Controller, RS-232/485 Communications, All Phase Sensing Digital Voltage Regulator, 2-Wire Start Capability, Data/Time Fault History (Event Log), Isochronous Governor Control, Waterproof/Sealed Connectors, Audible Alarms and Shutdowns, Not in Auto (Flashing Light)

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

CONFIGURABLE OPTIONS

- ENGINE SYSTEM: Oil Heater, Critical Silence, Radiator Stand Guard, Level 1 Fan and Belt Guards
FUEL SYSTEM: NPT Flexible Fuel Line
ELECTRICAL SYSTEM: 10A, UL Listed Battery Charger, Battery Warmer
ALTERNATOR SYSTEM: Alternator Upsizing, Air-Conditioner Heater, Tropical Coating, Permanent Magnet Excitation
GENERATOR SET: Extended Factory Testing, Position Load Center, Pad Vibration Isolation
ENGINEERED OPTIONS: Coolant Heater Isolation Ball Valves, Fuel Containment Pan, Spare Inputs (v6) / Outputs (v6), Battery Disconnect Switch
ALTERNATOR SYSTEM: 3rd Breaker System
GENERATOR SET: Special Testing
FUEL TANKS: 2005 Tank, Stainless Steel Tanks, Special Fuel Tanks, Vent Extensions

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

Table with 2 columns: General and Cooling System. Includes specifications for make, Perkins; emission compliance, Stationary Emergency; EPA emissions reference, See Emission Data Sheet; cylinder #, 4; fan speed - RPM, 1380; fuel system, Ultra Low Sulfur Diesel Fuel #2; fuel specifications, ASTM; fuel filtering (microns), 5; fuel injection pump, Distribution Injection Pump; fuel pump type, Engine Driven Gear; injector type, Mechanical; engine governing, Electronic isochronous; frequency regulation, ±0.5%.

ALTERNATOR SPECIFICATIONS

Table with 2 columns: Standard Model and Field Type. Includes specifications for standard model, K0035124Y21; field type, Revolving; insulation class - motor, H; insulation class - stator, H; total harmonic distortion, <5% (3-Phase Only); telephone interference factor (TIF), <50; regulation accuracy (Steady State), ±0.25%.

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

OPERATING DATA

POWER RATINGS

Table showing power ratings for Standby and Diesel operation. Standby ratings include Single-Phase 120/240 VAC @1.0pf, Three-Phase 120/208 VAC @0.8pf, Three-Phase 120/240 VAC @0.8pf, Three-Phase 277/480 VAC @0.8pf, Three-Phase 348/600 VAC @0.8pf. Diesel ratings include 120/240 VAC 10 30%, 277/480 VAC 30 30%, 208/240 VAC 30 30%.

MOTOR STARTING CAPABILITIES (kW)

Table showing motor starting capabilities for kW vs. Voltage Dip. Columns include kW, Voltage Dip, and three columns of kW values for different voltage dips.

FUEL CONSUMPTION RATES\*

Table showing fuel consumption rates in Diesel - gph (Lph) and Standby. Includes Fuel Pump L/H - ft (m) and Total Fuel Pump Flow (Combustion + Return) - gph (Lph).

COOLING

Table showing cooling specifications including Coolant Flow (gpm (Lpm)), Coolant System Capacity (gal (L)), Heat Rejection to Coolant (BTU/hr (kW)), Inlet Air (cfm (m³/hr)), Maximum Operating Ambient Temperature (°F (°C)), and Maximum Operating Ambient Temperature (Before Derate).

COMBUSTION AIR REQUIREMENTS

Table showing combustion air requirements with Flow at Rated Power - cfm (m³/min) and Standby 89 (2.5).

ENGINE

Table showing engine specifications including Rated Engine Speed (RPM), Voltage Regulator Type, Piston Speed (ft/min (m/min)), and BMEP (psi (kPa)).

\*\* Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCQA/QD permitting purposes.

Derate - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SS8. Prime - See Bulletin 0187310SS9.

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

DIMENSIONS AND WEIGHTS\*

Technical drawings showing dimensions and weights for different enclosure options: OPEN, WEATHER PROTECTED ENCLOSURE, LEVEL 1 SOUND ATTENUATED ENCLOSURE, and LEVEL 2 SOUND ATTENUATED ENCLOSURE. Each section includes a diagram and a table with Run Time, Usable Capacity, L x W x H - in (mm), and Weight - lbs (kg).

PROPOSED 30 kW GENERATOR WITH 190 GALLON TANK AND LEVEL 2 ACOUSTIC ENCLOSURE

\* All measurements are approximate and for informational purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings. Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53188 Part No. 1000026842 P. (262) 544-8111 ©2009 Generac Power Systems, Inc. All rights reserved.



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440 PERALTA AVENUE SAN LEANDRO, CA 94577 (ALAMEDA COUNTY)

PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

Table with columns: REV, DATE, DRWN, DESCRIPTION, QA. Shows revision history for the drawing.

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SHEET TITLE: GENERATOR DETAILS

SHEET NUMBER: C-5 REVISION: H

TEP #: 314190.336174

1 PROPOSED GENERATOR DETAILS SCALE: N.T.S.



**PowerSafe®**  
**SBS** Front Terminal  
Telecommunications *NEBS™ Certified*

**Battery Range Summary**

The PowerSafe® SBS® Front Terminal battery further extends the technical leadership of PowerSafe SBS battery product line: not only do PowerSafe SBS Front Terminal monoblocs retain the benefits typically associated with Thin Plate Pure Lead (TPPL) Technology such as long life, high energy density, superior shelf life, etc., they also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional Valve Regulated Lead Acid (VRLA)/Absorbed Glass Mat (AGM) batteries struggle to cope with harsh conditions and frequent power outages, cutting edge (TPPL) technology makes PowerSafe 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe SBS batteries are designed to high quality standards and a unique manufacturing methods means superior energy and power, high performance and proven reliability, there is no substitute to PowerSafe SBS Front Terminal batteries.

**Features and Benefits**

- Capacity range 31-190Ah
- 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR4228 compliant
- Proven long service life
- High energy density and cycling capability



Publication No: US-SBSF-RS-004 - January 2014

**Construction**

- Robust positive plates are designed to prolong service life and enhance corrosion resistance
- Separators are low resistance microporous (AGM). The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Terminals are stainless steel front access with top access copper alloy insert. Top and front access terminations provide maximum conductivity
- Self-regulating one way pressure relief valves prevents ingress of atmospheric oxygen

**Installation and Operation**

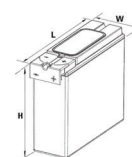
- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F (50°C)  
Recommended temperature: 68°F (20°C) to 86°F (30°C)

**Standards**

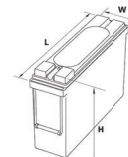
- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

**General Specifications**

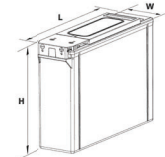
| Cell Type | Nominal Capacity (Ah)       |                            | Nominal Dimensions |           |          |          | Weight - Volumes |           |              |             |
|-----------|-----------------------------|----------------------------|--------------------|-----------|----------|----------|------------------|-----------|--------------|-------------|
|           | 10 hr rate to 1.80Vpc @20°C | 8 hr rate to 1.75Vpc @77°F | Length in          | Length mm | Width in | Width mm | Height in        | Height mm | Unpacked lbs | Unpacked kg |
| SBS B8F   | 31                          | 31                         | 11.9               | 303       | 3.8      | 97       | 6.3              | 159       | 22.7         | 10.3        |
| SBS B10F  | 38                          | 38                         | 11.9               | 303       | 3.8      | 97       | 7.2              | 184       | 28.2         | 12.8        |
| SBS B14F  | 62                          | 62                         | 11.9               | 303       | 3.8      | 97       | 10.4             | 264       | 42.0         | 19.1        |
| SBS C11F  | 92                          | 91                         | 16.4               | 417       | 4.1      | 105      | 10.1             | 256       | 61.6         | 28.0        |
| SBS 100F  | 100                         | 100                        | 15.6               | 395       | 4.3      | 108      | 11.3             | 287       | 71.9         | 32.6        |
| SBS 112F  | 112                         | 112                        | 22.1               | 561       | 4.9      | 125      | 9.0              | 228       | 90.4         | 41.1        |
| SBS 145F  | 145                         | 145                        | 17.9               | 455       | 3.8      | 173      | 9.4              | 238       | 105.0        | 47.7        |
| SBS 165F  | 165                         | 165                        | 17.9               | 455       | 3.8      | 173      | 10.8             | 273       | 117.4        | 53.3        |
| SBS 170F  | 170                         | 170                        | 22.1               | 561       | 4.9      | 125      | 11.1             | 283       | 115.7        | 52.5        |
| SBS 190F  | 190                         | 190                        | 22.1               | 561       | 4.9      | 125      | 12.4             | 316       | 132.3        | 60.0        |



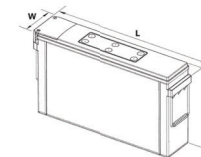
SBS B8F-B14F



SBS C11F



SBS 100F-112F



SBS 145F - 190F

|                                    |                      |
|------------------------------------|----------------------|
| MANUFACTURER:                      | ALPINE POWER SYSTEMS |
| MODEL:                             | POWERSAFE SBS 190F   |
| BATTERY QTY.:                      | 8 UNITS              |
| TOTAL BATTERY KWH:                 | 18.24                |
| TOTAL BATTERY WEIGHT (KG/LBS):     | 480 / 1058.4         |
| TOTAL ELECTROLYTE VOLUME (GAL):    | 18.72                |
| TOTAL ELECTROLYTE WEIGHT (KG/LBS): | 129.5 / 285.4        |

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**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**  
**PROPOSED 80'-0"**  
**MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

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DO NOT USE FOR  
CONSTRUCTION

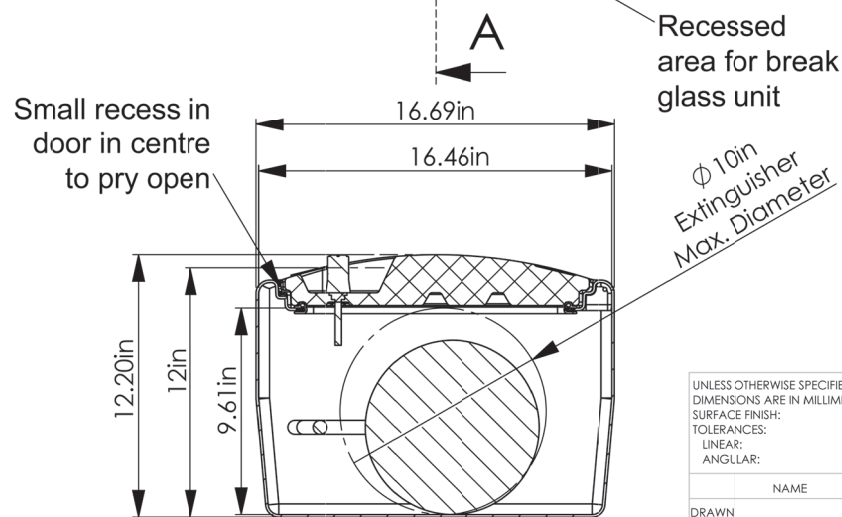
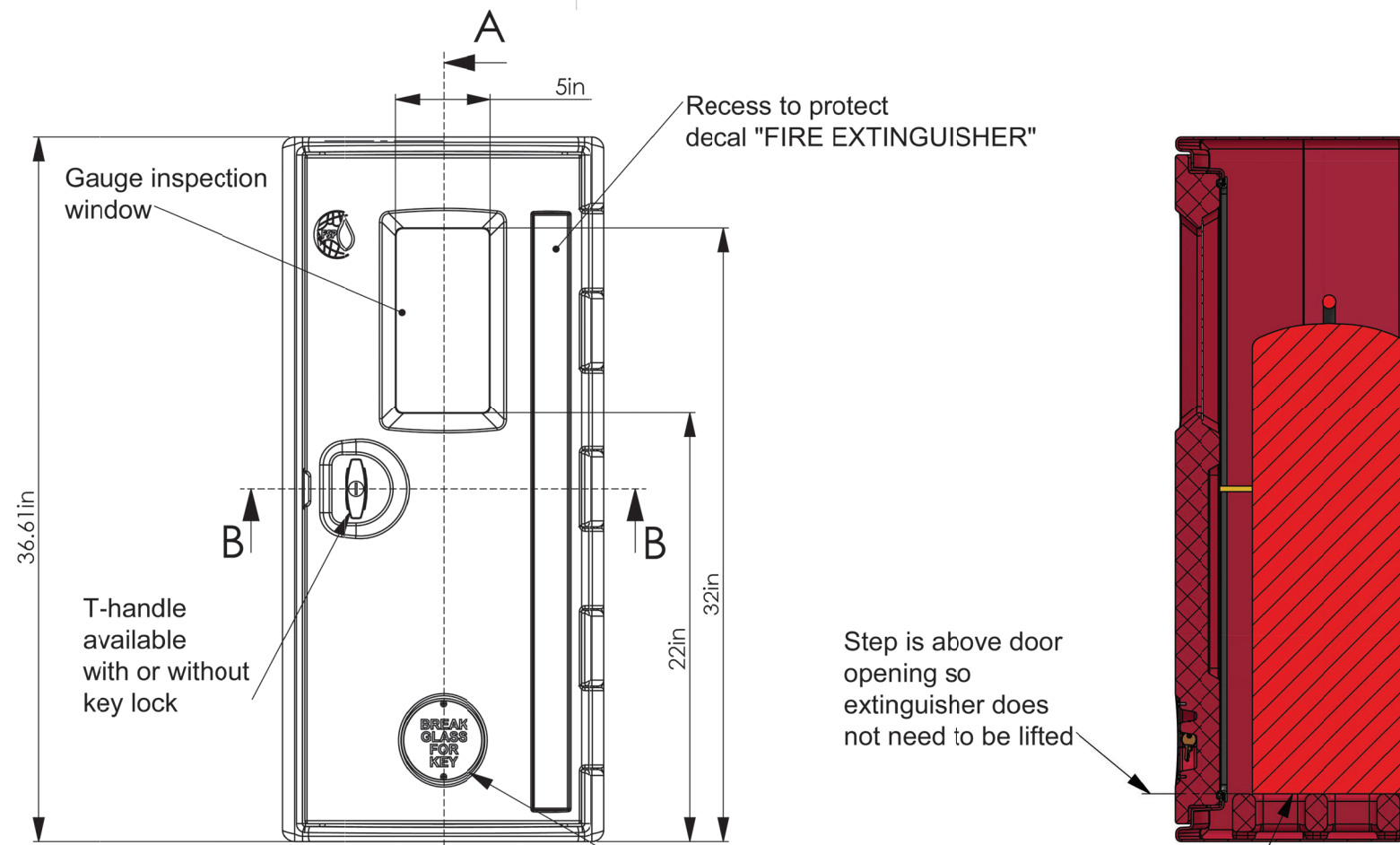
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**SHEET TITLE:**  
**BATTERY DETAILS**

**SHEET NUMBER:**  
**C-6**

**REVISION:**  
**H**

**TEP #:** 314190.336174



SECTION A-A

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| MFG    |           |      |
| Q.A    |           |      |

TITLE:  
**CFE900 Fire Extinguisher Cabinet**

DWG NO. **CFE900** A3

SCALE: 1:7 DO NOT SCALE DRAWING REVISION D SHEET 1 OF 1

**PUBLIC SAFETY TOWERS COMPANY**  
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440 PERALTA AVENUE  
SAN LEANDRO, CA 94577  
(ALAMEDA COUNTY)  
PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

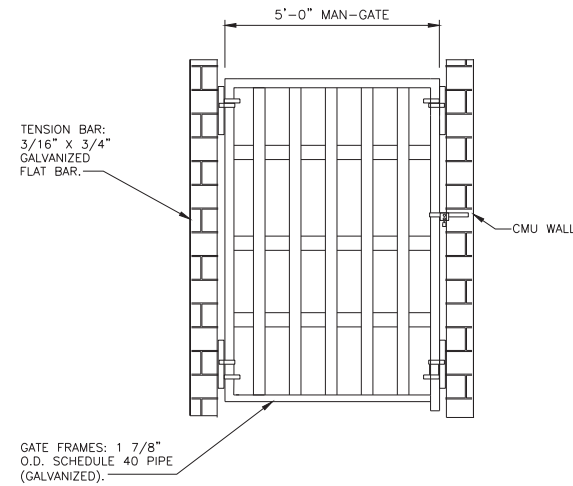
SEAL:

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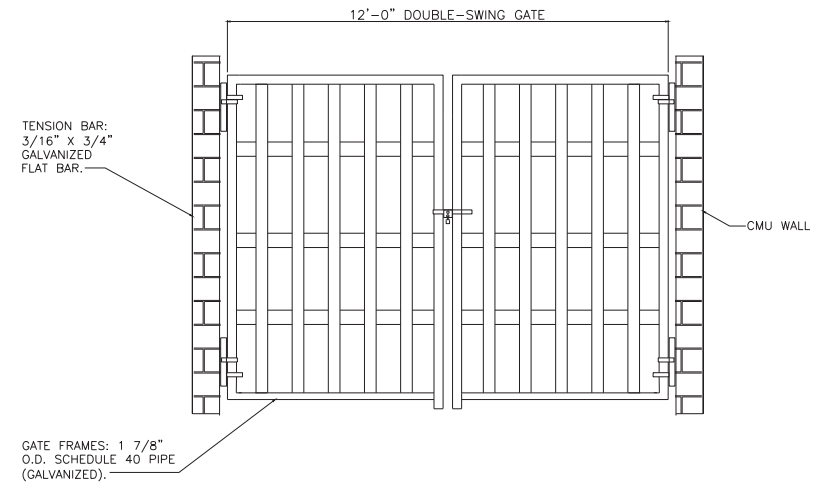
SHEET TITLE:  
**FIRE EXTINGUISHER DETAIL**

SHEET NUMBER: **C-7** REVISION: **H**

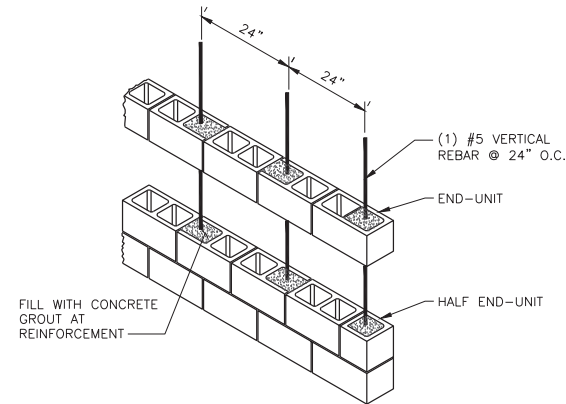
TEP #: 314190.336174



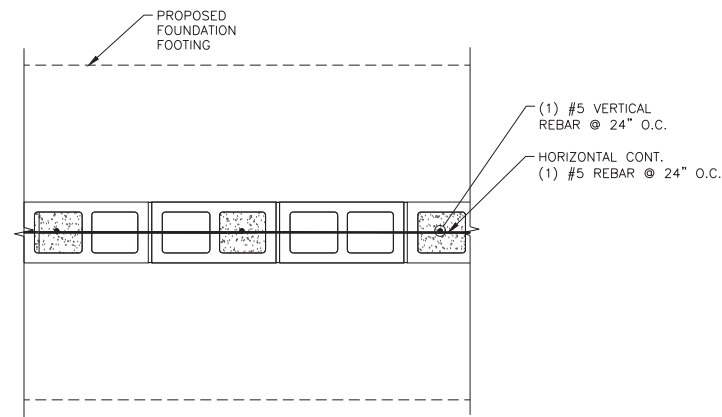
**1 MAN-GATE DETAIL**  
SCALE: N.T.S.



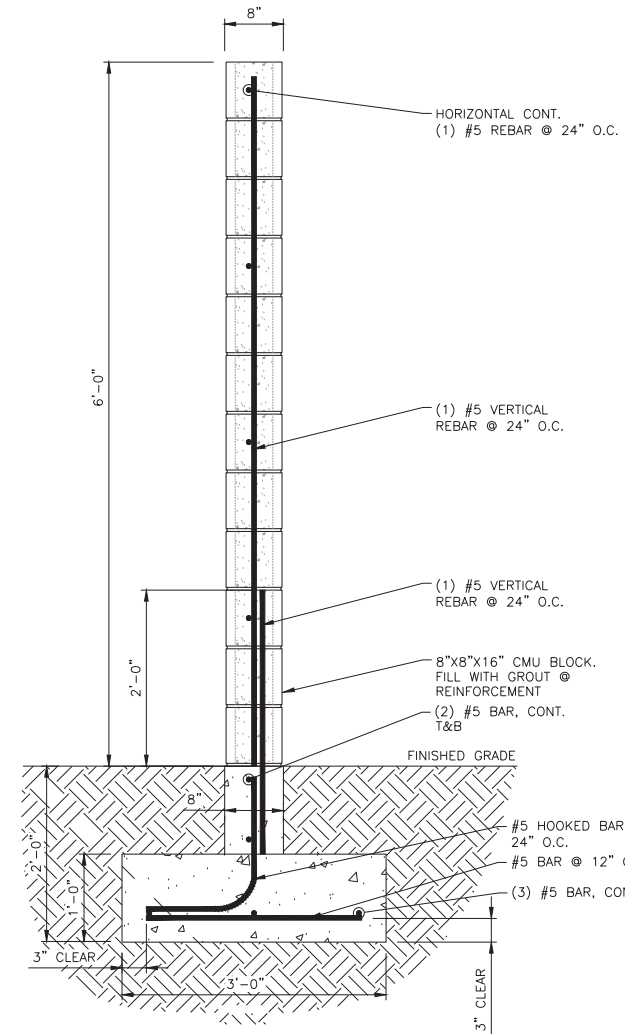
**2 DOUBLE-SWING GATE DETAIL**  
SCALE: N.T.S.



**3 TYPICAL CMU WALL GROUTING & REINFORCEMENT**  
SCALE: N.T.S.



**4 TYPICAL CMU WALL PLAN**  
SCALE: N.T.S.



**5 TYPICAL CMU WALL CROSS SECTION**  
SCALE: N.T.S.

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ALVARADO ST  
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PSTC #: CANC-SLEAN01  
440 PERALTA  
  
440 PERALTA AVENUE  
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(ALAMEDA COUNTY)  
  
PROPOSED 80'-0"  
MONOPINE TOWER

**ISSUED FOR:**

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|-----|----------|------|-------------|-----|
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**SEAL:**



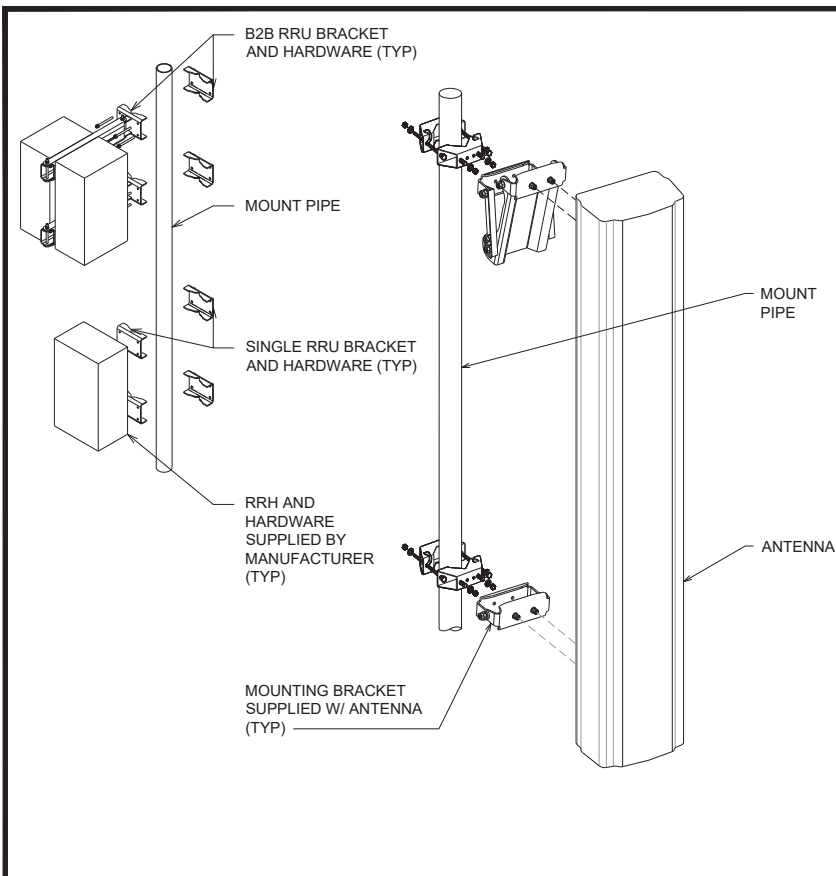
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**SHEET TITLE:**  
CMU WALL DETAILS

**SHEET NUMBER:** C-8  
**REVISION:** H

**TEP #:** 314190.336174





**1 EQUIPMENT MOUNTING DETAIL**  
SCALE: N.T.S.

**Quintel QD6612-3D**  
8T 65" XXXXXX MultiServ™ 12-Port Antenna

**Electrical Characteristics**

| Parameter                 | At 100%           | At 200% | At 300% | At 400% |
|---------------------------|-------------------|---------|---------|---------|
| Operating Frequency (MHz) | 600-608 & 638-664 | 600-608 | 600-608 | 600-608 |
| Gain (dBi)                | 14.5              | 14.5    | 14.5    | 14.5    |
| Efficiency (%)            | 75                | 75      | 75      | 75      |
| Front-to-back ratio (dB)  | 18                | 18      | 18      | 18      |
| Side-lobe level (dB)      | -12               | -12     | -12     | -12     |
| Return Loss (dB)          | 14                | 14      | 14      | 14      |
| VSWR                      | 1.2               | 1.2     | 1.2     | 1.2     |
| Max Power Handling (W)    | 300               | 300     | 300     | 300     |
| Max Power Density (W/cm²) | 1.5               | 1.5     | 1.5     | 1.5     |

**Mechanical Characteristics**

Dimensions: 1.17" (30mm) H x 1.17" (30mm) W x 1.17" (30mm) D

Weight (incl. mounting brackets): 0.8 lbs (0.36 kg)

Max Wind Speed: 120 mph (193 km/h)

Max Wind Load: 100 lbs (45 kg)

Max Ice Load: 0.5" (12.7 mm)

Max Snow Load: 0.5" (12.7 mm)

Max Rain Load: 0.5" (12.7 mm)

Max Hail Load: 0.5" (12.7 mm)

Max Temperature: 150°F (65°C)

Max Humidity: 95% RH

Max Altitude: 10,000 ft (3,048 m)

**Quintel QD6612-3D**  
8T 65" XXXXXX MultiServ™ 12-Port Antenna

**Electrical Characteristics**

| Parameter                 | At 100%           | At 200% | At 300% | At 400% |
|---------------------------|-------------------|---------|---------|---------|
| Operating Frequency (MHz) | 600-608 & 638-664 | 600-608 | 600-608 | 600-608 |
| Gain (dBi)                | 14.5              | 14.5    | 14.5    | 14.5    |
| Efficiency (%)            | 75                | 75      | 75      | 75      |
| Front-to-back ratio (dB)  | 18                | 18      | 18      | 18      |
| Side-lobe level (dB)      | -12               | -12     | -12     | -12     |
| Return Loss (dB)          | 14                | 14      | 14      | 14      |
| VSWR                      | 1.2               | 1.2     | 1.2     | 1.2     |
| Max Power Handling (W)    | 300               | 300     | 300     | 300     |
| Max Power Density (W/cm²) | 1.5               | 1.5     | 1.5     | 1.5     |

**Mechanical Characteristics**

Dimensions: 1.17" (30mm) H x 1.17" (30mm) W x 1.17" (30mm) D

Weight (incl. mounting brackets): 0.8 lbs (0.36 kg)

Max Wind Speed: 120 mph (193 km/h)

Max Wind Load: 100 lbs (45 kg)

Max Ice Load: 0.5" (12.7 mm)

Max Snow Load: 0.5" (12.7 mm)

Max Rain Load: 0.5" (12.7 mm)

Max Hail Load: 0.5" (12.7 mm)

Max Temperature: 150°F (65°C)

Max Humidity: 95% RH

Max Altitude: 10,000 ft (3,048 m)

**2 PROPOSED QUINTEL - QD6612-3D DETAIL**  
SCALE: N.T.S.

**Quintel QD6616-7**  
8T 65" MultiServ™ 16-Port Antenna

**Electrical Characteristics**

| Parameter                 | At 100%           | At 200% | At 300% | At 400% |
|---------------------------|-------------------|---------|---------|---------|
| Operating Frequency (MHz) | 600-608 & 638-664 | 600-608 | 600-608 | 600-608 |
| Gain (dBi)                | 14.5              | 14.5    | 14.5    | 14.5    |
| Efficiency (%)            | 75                | 75      | 75      | 75      |
| Front-to-back ratio (dB)  | 18                | 18      | 18      | 18      |
| Side-lobe level (dB)      | -12               | -12     | -12     | -12     |
| Return Loss (dB)          | 14                | 14      | 14      | 14      |
| VSWR                      | 1.2               | 1.2     | 1.2     | 1.2     |
| Max Power Handling (W)    | 300               | 300     | 300     | 300     |
| Max Power Density (W/cm²) | 1.5               | 1.5     | 1.5     | 1.5     |

**Mechanical Characteristics**

Dimensions: 1.17" (30mm) H x 1.17" (30mm) W x 1.17" (30mm) D

Weight (incl. mounting brackets): 0.8 lbs (0.36 kg)

Max Wind Speed: 120 mph (193 km/h)

Max Wind Load: 100 lbs (45 kg)

Max Ice Load: 0.5" (12.7 mm)

Max Snow Load: 0.5" (12.7 mm)

Max Rain Load: 0.5" (12.7 mm)

Max Hail Load: 0.5" (12.7 mm)

Max Temperature: 150°F (65°C)

Max Humidity: 95% RH

Max Altitude: 10,000 ft (3,048 m)

**Quintel QD6616-7**  
8T 65" MultiServ™ 16-Port Antenna

**Electrical Characteristics**

| Parameter                 | At 100%           | At 200% | At 300% | At 400% |
|---------------------------|-------------------|---------|---------|---------|
| Operating Frequency (MHz) | 600-608 & 638-664 | 600-608 | 600-608 | 600-608 |
| Gain (dBi)                | 14.5              | 14.5    | 14.5    | 14.5    |
| Efficiency (%)            | 75                | 75      | 75      | 75      |
| Front-to-back ratio (dB)  | 18                | 18      | 18      | 18      |
| Side-lobe level (dB)      | -12               | -12     | -12     | -12     |
| Return Loss (dB)          | 14                | 14      | 14      | 14      |
| VSWR                      | 1.2               | 1.2     | 1.2     | 1.2     |
| Max Power Handling (W)    | 300               | 300     | 300     | 300     |
| Max Power Density (W/cm²) | 1.5               | 1.5     | 1.5     | 1.5     |

**Mechanical Characteristics**

Dimensions: 1.17" (30mm) H x 1.17" (30mm) W x 1.17" (30mm) D

Weight (incl. mounting brackets): 0.8 lbs (0.36 kg)

Max Wind Speed: 120 mph (193 km/h)

Max Wind Load: 100 lbs (45 kg)

Max Ice Load: 0.5" (12.7 mm)

Max Snow Load: 0.5" (12.7 mm)

Max Rain Load: 0.5" (12.7 mm)

Max Hail Load: 0.5" (12.7 mm)

Max Temperature: 150°F (65°C)

Max Humidity: 95% RH

Max Altitude: 10,000 ft (3,048 m)

**3 PROPOSED QUINTEL - QD6616-7 DETAIL**  
SCALE: N.T.S.

### AIR 6449 B77D/ C-BAND

- Advanced Antenna System (AAS)
- 64TX/64RX with 192 AE
- Up to 320W RF Power
- EIRP up to 79 dBm
- Up to 200 MHz CBW with 64TX
- Max total carrier BW is 200 MHz for NR
- Support number of layers: DL/UL 16/8

| AIR 6449 B77D/ C-Band | Height           | Width            | Depth           | Weight             |
|-----------------------|------------------|------------------|-----------------|--------------------|
| w/ protruding items   | 30.4 in (772 mm) | 15.9 in (403 mm) | 8.1 in (205 mm) | 88.0 lbs (39.9 kg) |
| w/ protruding items   | 30.6 in (783 mm) | 16.1 in (408 mm) | 8.2 in (208 mm) |                    |

4 x 25 Gbps eCPRI, (compatible to 10G) eCPRI SFP28  
-48 VDC, max ~ 1360W (80%TX-20%RX), Typical TBD  
-40 to +55°C, (Incl Solar Load)

**Now confirmed max measurements/ will not exceed**

**4 PROPOSED ERICSSON - AIR6449 B77D DETAIL**  
SCALE: N.T.S.

### AIR 6419 B77G

AT&T Input  
• Priority: High  
• Volumes: Large (>15k)

FFA ongoing PRA-May 22  
CGA-June 22

| Antenna Elements            | 192                          |
|-----------------------------|------------------------------|
| TRX Branches                | 64T64R                       |
| Antenna configuration       | (3x1)x(4x8)                  |
| Operation band:             | 3450 ~3550 MHz               |
| 1BW/TCBW (Total Carrier BW) | 100 MHz                      |
| Peak EIRP                   | 79 dBm                       |
| Output Power                | 320W                         |
| PSD                         | 8W/MHz                       |
| Weight                      | 66.2 lbs                     |
| Size                        | 28.2"x16.1"x7.3"             |
| Type of cooling             | Passive                      |
| eCPRI link                  | 2*25G                        |
| Operating temperature       | -40 to +55°C (-40 to +131°F) |
| Power Supply                | -48V VDC 3-wires             |
| Multi-layer: MU MIMO:       | 16/8 DL/UL layer             |

**5 PROPOSED ERICSSON AIR6419 B77G DETAIL**  
SCALE: N.T.S.

### RRUS 4478 B14

- B14
- TX = 758 ~ 768 MHz
- RX = 768 ~ 758 MHz
- CPRI 2 ports @ 2.54 Gb/s @ 10:1 Clock. Install 1 SFP and connect 1 fiber pair to the RRUS 4478 during initial install.
- Only use Ericsson supplied and approved SFPs RDH10265/25 until 12/1/2017, after use RDH10247/25
- 2 external alarm inputs
- Max wind load @ 50m/sec = 260N
- Breaker size = 25A, DC Power Consumption = 650W (for dimensioning)
- 200mm horizontal separation required for side by side mounting
- 200mm separation required from antenna backplane to radio
- 500mm/800mm vertical outdoor/indoor separation required
- Min. Max DC cable size from squid to radio = 10.8 AWG
- Adapter is required for 2-wire connection
- Shielded DC cable is required
- Ground cable size = 2AWG
- Dimensions (incl. handles, feet and fan unit)
  - Height: 18.1" (460 mm)
  - Width: 13.4" (342 mm)
  - Depth: 8.28" (210 mm)
- Weight, excl. mounting hardware = 59.4 lbs (27 kg)

**6 PROPOSED RRUS 4478 B14 DETAIL**  
SCALE: N.T.S.

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**FIRSTNET/AT&T ID: CCL05539**

**ALVARADO ST & CALLAWAY ST**

**PSTC #: CANC-SLEAN01**

**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**

**PROPOSED 80'-0" MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

**ZONING**  
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**SHEET TITLE:**

**EQUIPMENT DETAILS**

**SHEET NUMBER:** **C-9**

**REVISION:** **H**

**TEP #:** 314190.336174

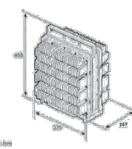
Optional installation equipment for wall and pole mount is available.

**Technical specification for Radio 4449 B71 B 85A**

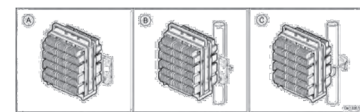
|                                     |  |
|-------------------------------------|--|
| <b>FREQUENCY BANDS</b>              | B71 + B8A  |
| Radio                               | B71 + B8A, B62 + B61 (E17 + E22 MHz)<br>B8A - B8D, 928-938 MHz (72 - 180 MHz)  |
| <b>HW CAPACITY</b>                  | Max 6 carriers per port (DL) max 6 carriers per port (UL)<br>Max carrier up to 20 MHz (E17)<br>Supported as per standard within LTE carrier<br>Up to 2 5-MHz carriers at B8A, B8B and B8C (band 4 and 12)<br>Up to 2 5-MHz carriers at B8D (band 13) |
| <b>INTERFACE SPECIFICATIONS</b>     | Antenna ports: 2 x 4 x 4 (S)<br>External Antenna Line Device: RET 2.5, using DIN 9 (S) or over the antenna port, AGO TMA & RET support<br>CPU: 2 x 5.0 GHz or 1 x 5.0 GHz (depending on ITT revision)  |
| <b>MECHANICAL SPECIFICATIONS</b>    | Weight: ~ 24 kg<br>Volume: 380 x 335 x 267 mm (14.96 x 13.19 x 10.51 in)<br>Mounting: Flat, wall and pole mount (pole only)  |
| <b>ELECTRICAL SPECIFICATIONS</b>    | Power Supply: -48VDC (3-wire)  |
| <b>ENVIRONMENTAL SPECIFICATIONS</b> | Normal operating temp: -40°C to +55°C (pool start at +40°C)<br>Storage temp: -40°C to +70°C<br>Humidity: 5% to 95% (non-condensing)<br>Vibration: Radio 4449 B71 B8A in combination with only 4G-LTE modules   |

Installation

Radio 4449 Height, Width, and Depth



Installation Method/Description



|   |  |
|---|--|
| A | Wall installation                        |
| B | Pole installation                        |
| C | Pole installation with single pole clamp |

Painting Limitations

Ericsson does not recommend painting the radio as it may affect radio performance of the unit. Ericsson will apply limitations to the warranty and service contract if the radio is painted.

## RADIO 8843 B2 B66A

The main Radio 8843 is a dual band (B71/B72) radio supporting B2 on four antenna ports and B66A on four antenna ports. As part of the Ericsson Radio System Portfolio, Radio 8843 has been designed to reduce the number of radio units on the tower and minimize weight and volume budgets, and to be mounted optimally to single band antennas for forward operating and maintenance costs.

Small and small dimensions of Radio 8843 support a wide range of mounting scenarios and provide a mounting flexibility with its portability. In combination with the low-SWaR installation, the antenna ports of Radio 8843 enhance the energy efficiency of the portfolio to become even more flexible and making it easier to use to create small and efficient single and multi-band radio installations.

The Radio 8843 should preferably be located near the antenna and can be located away from the antenna and deployed distance (ED). Two optional CPRI links are provided to connect the Radio 8843 to the baseband unit and antenna radio units can be connected in a cascade or star configuration. Baseband data for both bands can be transported on either one or both links and the cable port capabilities are identical. All the baseband data required to support both bands can be supported on a single CPRI link up to 10.1 Gbps, freeing up the second link for cascading or redundancy, as required.

The two bands are managed separately from the RAN perspective.

Radio 8843 provides support for AGO TMA and RET (B71 & B72) towards the antenna system. Radio 8843 supports the T2 standard as well as CAT-M and in-band and guard-band NB-IOT.

Four duplex (TX/RX) bandwidth per band provide built-in support for MIMO, TX/RX diversity, and phase-aligned TX outputs.

Optional installation equipment for wall and pole mount is available. To support AG installations there will be optional Power Supply Units (PSUs).

**Technical Specification for Radio 8843 B2 B66A**

|                                     |   |
|-------------------------------------|---|
| <b>FREQUENCY BANDS</b>              | B2 + B66A   |
| Radio                               | B2 + B66A   |
| <b>HW CAPACITY</b>                  | Max 3 carriers per port (DL) per band, max 6 carriers per port (UL)<br>Supported as per standard within LTE carrier<br>Max carrier up to 20 MHz (E17)<br>Max carrier up to 20 MHz (E17)<br>Max carrier up to 20 MHz (E17)<br>Max carrier up to 20 MHz (E17) |
| <b>INTERFACE SPECIFICATIONS</b>     | Antenna ports: 4 x 4 x 4 (S)<br>External Antenna Line Device: RET 2.5, using DIN 9 (S) and Ret 2.5 antenna ports A and C, AGO TMA & RET support<br>CPU: 2 x 5.0 GHz or 1 x 5.0 GHz (depending on ITT revision)  |
| <b>MECHANICAL SPECIFICATIONS</b>    | Weight: ~ 24 kg<br>Volume: 380 x 335 x 267 mm (14.96 x 13.19 x 10.51 in)<br>Mounting: Flat, wall and pole mount   |
| <b>ELECTRICAL SPECIFICATIONS</b>    | Power Supply: -48VDC (3-wire, BSA max per port)   |
| <b>ENVIRONMENTAL SPECIFICATIONS</b> | Normal operating temp: -40°C to +55°C (pool start at +40°C)<br>Storage temp: -40°C to +70°C<br>Humidity: 5% to 95% (non-condensing)<br>Vibration: Radio 8843 B2 B66A in combination with only 4G-LTE modules  |

Radio Description

|  |  |
|--|--|
| <b>Description</b>                                 | Value                                  |
| Radio 2012 B29 Height (A) + Width (B) + Depth (C)  | 420 mm x 342 mm x 124 mm <sup>1)</sup> |
| <b>Dimensions with Fan Unit (V2) <sup>2)</sup></b> |  |
| Radio 2012 B29 Height (A) + Width (B) + Depth (C)  | 420 mm x 342 mm x 168 mm               |
| Radio 2012 B29 Height (A) + Width (B) + Depth (C)  | 420 mm x 342 mm x 142 mm               |
| <b>Dimensions with Fan Unit (V2) <sup>3)</sup></b> |  |
| Radio 2012 B29 Height (A) + Width (B) + Depth (C)  | 420 mm x 342 mm x 178 mm               |
| Radio 2012 B29 Height (A) + Width (B) + Depth (C)  | 420 mm x 342 mm x 162 mm               |
| <b>Weight without Fan Unit</b>                     |  |
| Radio 2012 B29                                     | 17.6 kg                                |
| Radio 2012 B29                                     | 19.6 kg                                |
| <b>Weight with Fan Unit (V2) <sup>4)</sup></b>     |  |
| Radio 2012 B29                                     | 21.1 kg                                |
| Radio 2012 B29                                     | 18.9 kg                                |
| Radio 2012 B29                                     | 20.9 kg                                |
| <b>Color</b>                                       |  |
| Body   | NCS 5 1002-B                           |
| Front  | NCS 5 6902-B                           |

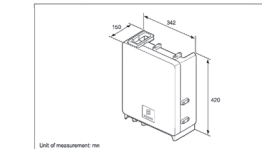


Figure 2 Radio 2012 Height, Width, and Depth without Fan Unit

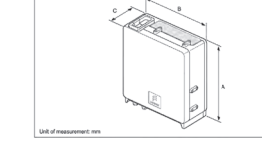


Figure 3 Radio 2012 Height, Width, and Depth with Fan Unit

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| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 08-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

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**SHEET TITLE:**  
**EQUIPMENT DETAILS**

**SHEET NUMBER:** **C-10**      **REVISION:** **H**

**TEP #:** 314190.336174

### 1 PROPOSED RRUS 4449 B5/B12 DETAIL

SCALE: N.T.S.

**RRUS 4415 B30**

- B30 A+B  
- TX = 2350 - 2380 MHz  
- RX = 2305 - 2315 MHz
- CPRI 2 ports x 2.54 Gbps/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during initial install.
- Only use Ericsson supplied and approved SFPs RDH1029525  
- Exception: SFP part RDH102101 and RDH102102 for CPRI + 10Gb.
- 2 external alarm inputs
- Max wind load @ 50m/s = 280N
- Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
- 200mm horizontal separation required for side by side mounting
- 200mm separation required from antenna backplane to radio
- 400mm vertical outdoor/indoor separation required between 2 radios
- 500mm vertical separation below antenna
- Min. Max DC cable size from squid to radio = 10.8 AWG  
- Adapter is required for 2-wire connection  
- Shielded DC cable is required
- Ground cable size = 2AWG
- Dimensions (incl. handles, feet and sunshield, w/o fan unit)  
- Height: 16.5" (420 mm)  
- Width: 13.4" (342 mm)  
- Depth: 5.9" (149 mm)
- Weight, excl. mounting hardware = 46 lbs (21 kg)

**RRUS 4415 B30 CONNECTION INTERFACES**

CPRI, RET/ASGport, and ALD port caps have lanyards attached to the radio. DC and RF ports have protective caps to be removed when DC, RF connected to radio.

### 4 PROPOSED RRUS 4415 B30 DETAIL

SCALE: N.T.S.

### 2 PROPOSED RRUS 8843 B2/B66A DETAIL

SCALE: N.T.S.

**RAYCAP**  
**DC9-48-60-24-8C-EV**

RAYCAP - DC9-48-60-24-8C-EV  
SIZE: 10.24x31.25 IN.  
WEIGHT: 32.8 LBS  
NOMINAL OPERATING VOLTAGE: 48 VDC  
VOLTAGE PROTECTION RATING: 400 V  
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)  
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION

### 5 PROPOSED RAYCAP DETAIL

SCALE: N.T.S.

### 3 PROPOSED RRUS 2012 B29 DETAIL

SCALE: N.T.S.

**NOT USED**

SCALE: N.T.S.

### 6 NOT USED

SCALE: N.T.S.

# LARSON MONO-PINE CAMOUFLAGE

MODERATE APPLICATIONS (>60 FT <100 FT HEIGHT)



65' 3.1 BPF (Premium) 70' 3.25 BPF (Aleppo Pine) 70' 3.25 BPF (Standard) 60' 3.1 BPF (Premium)

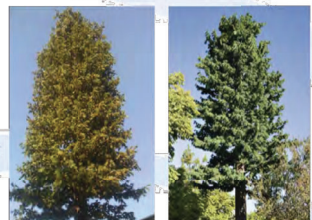
3 INNOVATORS OF CONCEALMENT SOLUTIONS

## LARSON ANTENNA SOCKS AND SPECIALTY BRANCHES

ANTENNA + SOCK + BRANCHES



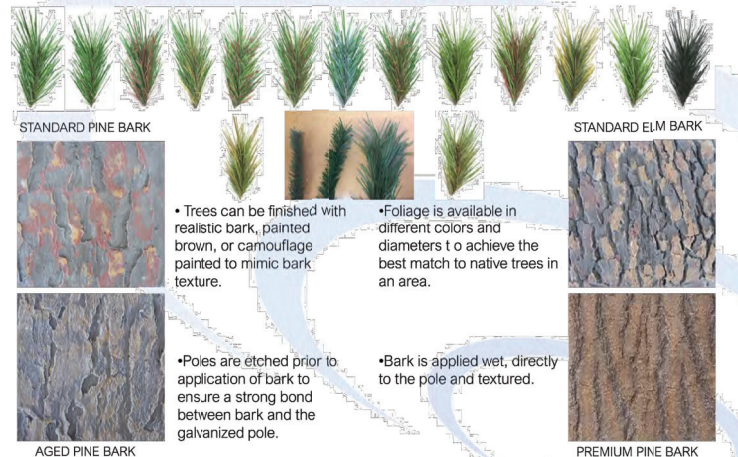
RF-friendly Larson Antenna Socks are vital to camouflage antennas within the canopy of the tree & the addition of Larson Antenna Branches can create complete concealment.



A combination of Larson antenna socks and branches creates a nearly invisible antenna array. Each of these trees is equipped with (9) six foot tall by one foot wide antennas at the top rad center.

6 INNOVATORS OF CONCEALMENT SOLUTIONS

## LARSON MONO-PINE OPTIONS



STANDARD PINE BARK

• Trees can be finished with realistic bark, painted brown, or camouflage painted to mimic bark texture.

• Foliage is available in different colors and diameters to achieve the best match to native trees in an area.

STANDARD ELM BARK



• Poles are etched prior to application of bark to ensure a strong bond between bark and the galvanized pole.

• Bark is applied wet, directly to the pole and textured.



PREMIUM PINE BARK

INNOVATORS OF CONCEALMENT SOLUTIONS



### Antenna Sock Installation Instructions

**USE OF THIS DOCUMENT**  
This manual is intended to describe the installation of Larson® monopine, monoaleppus, and monoelm/aleppus/elm antenna concealment socks. It is intended for users who are experienced and competent in the installation of these types of structures and is not intended as the only source of information. It is the user's responsibility to ensure that he has sufficient knowledge and experience and to use this manual as a supplement to this knowledge and experience only.

**NOTE: These antenna socks are not intended to be installed around heat generating equipment. Integrated antennas or radials use the RRU sock assembly that includes the metal hoop assembly to facilitate air flow.**

**LIABILITY: WITH REGARD TO THIS MANUAL, THE USER SHALL BE RESPONSIBLE FOR THE INSTALLATION TO COMPLY WITH ALL APPLICABLE LAWS AND SAFETY REGULATIONS. NOTHING IN THIS MANUAL SHALL SUGGEST OR IMPLY ANYTHING TO THE CONTRARY. ALL COMPANIES AND PERSONNEL MUST HAVE PREVIOUS EXPERIENCE IN ERECTING AND RIGGING TOWER STRUCTURES AND TELECOMMUNICATION EQUIPMENT.**

Personal protective equipment (PPE) should be used to increase individual safety while performing potentially hazardous tasks. This may include safety glasses, hard hats, gloves, lab coats, respirators, or any equipment used to protect against injury or illness.

During construction activities above ground, protection against falls frequently must be considered. Fall arresting systems, which include lifelines, body harnesses, and other associated equipment, must be used at all times when working above ground.

Protection should also be provided from falling objects. Work areas, particularly above groundwork areas should be kept clear of material and debris and personnel and equipment on the ground should be kept clear of the fall zone and be protected against falling objects.

Protection should also be provided from radio frequency radiation. Ensure that any antennas will be working near are de-energized.

Revision 1 6/26/2024



### ANTENNA SOCK INSTALL

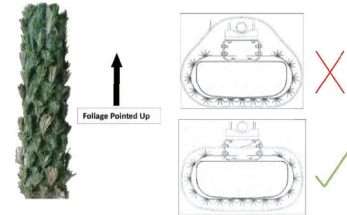
1. Install the antennas in accordance with the manufacturer's instructions.
2. Paint exposed antenna surfaces (if permitted by the manufacturer) monopine and monoaleppus/aleppus should be painted 'Larson Base Brown' and monoelm/aleppus should be painted High Tea SW6155, for optimum concealment. Larson recommends a flat outdoor water-based latex paint, see paint code in the photos below. This can be purchased at any local Sherwin Williams store.



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5. Raise the antenna sock to the antenna location, the antenna sock should be centered on the antenna both on the vertical and horizontal axes. The lower tufts of foliage should point skyward for correct orientation. Starting with the uppermost zip tie, wrap the antenna sock radially around the antenna. Cinch down on the zip tie, but leave it slightly loose for minor adjustments.



6. Move to the middle zip tie(s), wrap the antenna sock radially around the antenna. Cinch down on the zip tie, but leave it slightly loose for minor adjustments.
7. Repeat step 5 for the lowest zip tie.

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### EQUIPMENT LIST

Larson antenna sock kits consist of the following items:  
• (2) Foliage antenna sock (various height, width, and foliage densities are available) use standard model naming convention below.  
• (3) 48" zip ties per 6' long sock or (4) 48" zip ties per 8' long sock  
• Installation sheet

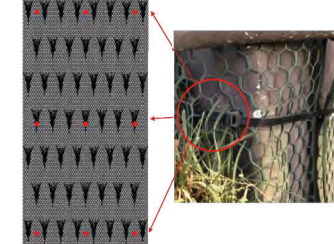
| LCAS-72PIN-SWSE |                 |                          |                             |
|-----------------|-----------------|--------------------------|-----------------------------|
| Length          | Foliage Type    | Width                    | Density                     |
| 72" Long        | PM Pine Foliage | 36" Standard Width (36") | SP Standard Foliage Density |
| 72" Long        | EM Elm Foliage  | 36" Wide White (36")     | HP Heavy Foliage Density    |

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### 3. Remove the antenna socks from the box and verify all items listed in the Equipment List section are present.

4. While the antenna sock is still on the ground, lace the 48" UV zip ties through the netting in the nine locations shown below. The vertical spacing of the zip ties should be 6" from the top, 6" from the bottom, and approximately 28"-30" apart so they are evenly spaced between the top and the bottom. Make sure that the zip tie is against the netting and not over the foliage. Examples below in for a 6' x 3' (standard width) antenna sock.



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8. Verify that the antenna is completely concealed, adjust the antenna sock as needed to achieve the desired concealment. Snug tighten all of the zip ties, so that the antenna sock cannot move.

**NOTE: If the antenna socks are longer or wider than the antenna, trim netting to fit OR use the extra netting by folding it over the top or sides of the antenna and lace the zip tie(s) through that section. Repeat steps 5-7.**

### INSTALLATION SUPPORT OR QUESTIONS

If any items are missing or defective, immediately call the Valmont Larson office at 520-294-3900 or email [LarsonCamouflage@valmont.com](mailto:LarsonCamouflage@valmont.com). Please have the site location and site ID ready.

Revision 1 6/26/2024

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FIRSTNET/AT&T ID: CCL05539  
ALVARADO ST  
& CALLAWAY ST  
PSTC #: CANC-SLEAN01  
440 PERALTA  
440 PERALTA AVENUE  
SAN LEANDRO, CA 94577  
(ALAMEDA COUNTY)  
PROPOSED 80'-0"  
MONOPINE TOWER

ISSUED FOR:

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

SEAL:

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

SHEET TITLE:  
CONCEALMENT DETAILS

SHEET NUMBER: **C-11** REVISION: **H**

TEP #: 314190.336174



FIRSTNET/AT&T ID: CCL05539  
 ALVARADO ST & CALLAWAY ST  
 PSTC #: CANC-SLEAN01  
 440 PERALTA  
 440 PERALTA AVENUE  
 SAN LEANDRO, CA 94577  
 (ALAMEDA COUNTY)  
 PROPOSED 80'-0"  
 MONOPINE TOWER

ISSUED FOR:

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SHEET TITLE:  
**AC PANEL SCHEDULE**

SHEET NUMBER: **E-1**      REVISION: **H**

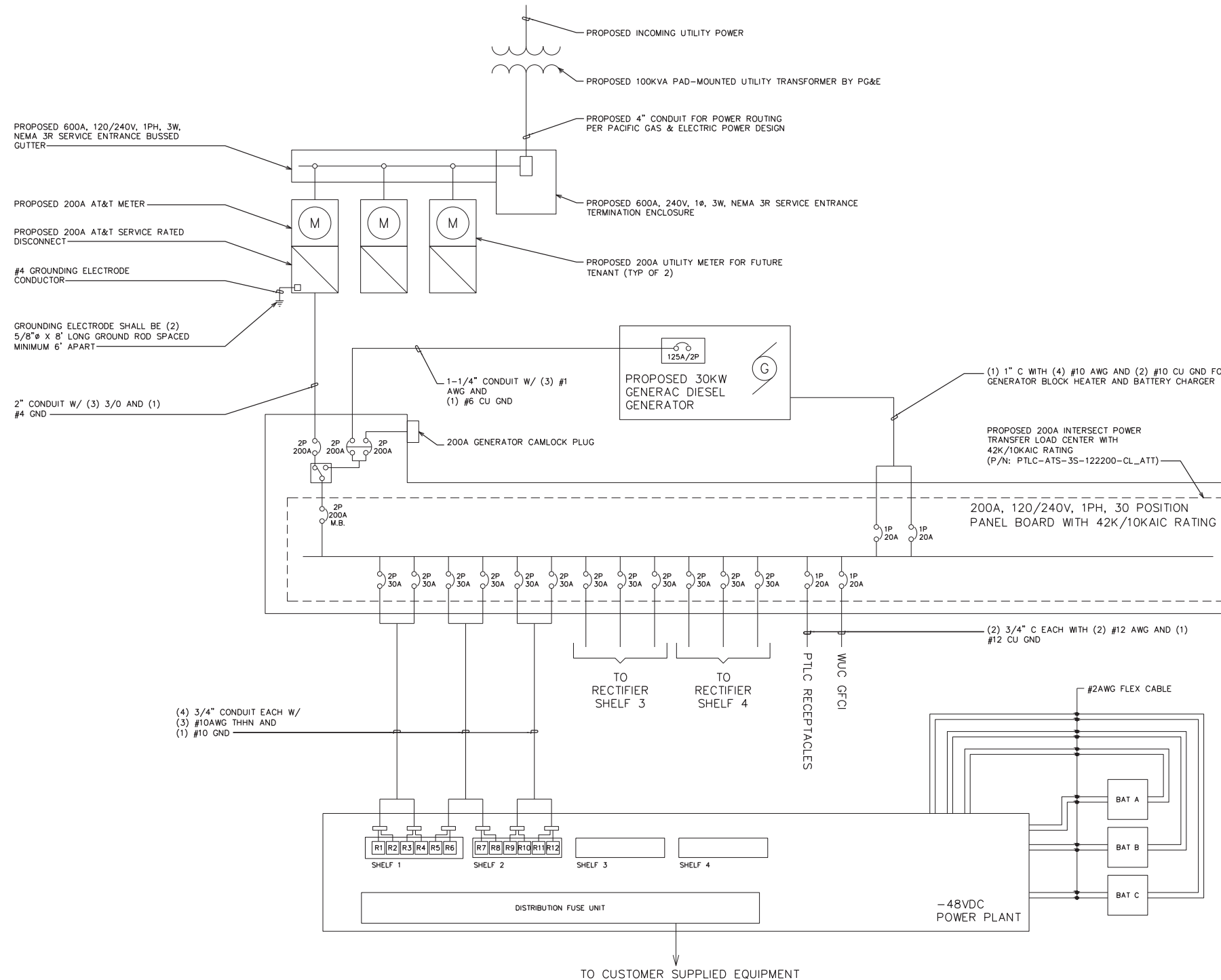
TEP #: 314190.336174

| AC POWER PANEL A (PROPOSED)                    |      |      |      |      |       |                      |   |      |      |      |                     |  |
|--|------|------|------|------|-------|----------------------|---|------|------|------|---------------------|--|
| 120/240 VOLTS, 1-PHASE, 3-WIRE, 200A           |      |      |      |      |       |                      |   |      |      |      |                     |  |
| MAIN BREAKER RATING (A) :                      |      |      |      | 200  |       | SYSTEM VOLTAGE (V) : |   |      |      | 240  |                     |  |
| DESCRIPTION                                    | VA   | c/nc | BKR  | POSN | L1    | L2                   | POSN  | BKR  | c/nc | VA   | DESCRIPTION         |  |
| RECTIFIERS #1 & 2                              | 1410 | c    | 30/2 | 1    | 2820  |                      | 2   | 30/2 | c    | 1410 | RECTIFIERS #3 & 4   |  |
|  | 1410 | c    |      | 3    |       | 2820                 | 4   |      | c    | 1410 |                     |  |
| RECTIFIERS #5 & 6                              | 1410 | c    | 30/2 | 5    | 2820  |                      | 6   | 30/2 | c    | 1410 | RECTIFIERS #7 & 8   |  |
|  | 1410 | c    |      | 7    |       | 2820                 | 8   |      | c    | 1410 |                     |  |
| RECTIFIERS #9 & 10                             | 1410 | c    | 30/2 | 9    | 2820  |                      | 10  | 30/2 | c    | 1410 | RECTIFIERS #11 & 12 |  |
|  | 1410 | c    |      | 11   |       | 2820                 | 12  |      | c    | 1410 |                     |  |
| SPARE / OFF                                    | 0    | nc   | 30/2 | 13   | 0     |                      | 14  | 30/2 | nc   | 0    | SPARE / OFF         |  |
|  | 0    | nc   |      | 15   |       | 0                    | 16  |      | nc   | 0    |                     |  |
| SPARE / OFF                                    | 0    | nc   | 30/2 | 17   | 0     |                      | 18  | 30/2 | nc   | 0    | SPARE / OFF         |  |
|  | 0    | nc   |      | 19   |       | 0                    | 20  |      | nc   | 0    |                     |  |
| SPARE / OFF                                    | 0    | nc   | 30/2 | 21   | 0     |                      | 22  | 30/2 | nc   | 0    | SPARE / OFF         |  |
|  | 0    | nc   |      | 23   |       | 0                    | 24  |      | nc   | 0    |                     |  |
| BLANK  |      |      |      | 25   | 1000  |                      | 26  | 20/1 | nc   | 1000 | *GEN BLOCK HEATER   |  |
| BLANK  |      |      |      | 27   |       | 650                  | 28  | 20/1 | nc   | 650  | *GEN BATT CHARGER   |  |
| PTLC RECEPTACLES                               | 720  | nc   | 20/1 | 29   | 900   |                      | 30  | 20/1 | nc   | 180  | WUC GFCI            |  |
| PHASE TOTALS (VA):                             |      |      |      |      | 10360 | 9110                 |   |      |      |      |                     |  |
| PHASE TOTALS (A):                              |      |      |      |      | 86    | 76                   |   |      |      |      |                     |  |
| CURRENT PER PHASE W/ 125% Continuous Loads(A): |      |      |      |      | 104   | 94                   | Amperes/phase cannot exceed main breaker rating |      |      |      |                     |  |
| PANEL TOTAL (VA):                              |      |      |      |      | 19470 |                      |   |      |      |      |                     | Legend: c = continuous, nc = non-continuous                      |
| PANEL TOTAL W/ 125% Continuous Loads (VA):     |      |      |      |      | 23700 |                      |   |      |      |      |                     |  |
| TOTAL LOAD FOR GEN OPERATION:                  |      |      |      |      | 17820 |                      |   |      |      |      |                     | *Generator loads are not in operation while generator is running |

PROPOSED LOADING = 23.7 KVA

**NOTES:**

- CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
- CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
- ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
- CONTRACTOR SHALL LABEL METER SOCKET WITH SERVICE OWNER NAMEPLATE WITH 1/2" HEIGHT MINIMUM LETTERS.
- CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT PER NEC 110.24.
- CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.



**PUBLIC SAFETY TOWERS COMPANY**  
 1903 WRIGHT PLACE, SUITE 140  
 CARLSBAD, CA 92008

**AT&T**  
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**TOWER ENGINEERING PROFESSIONALS**  
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 OFFICE: (480) 285-0036  
 www.tepgroup.net

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**ALVARADO ST & CALLAWAY ST**  
**PSTC #: CANC-SLEAN01**  
**440 PERALTA**  
**440 PERALTA AVENUE**  
**SAN LEANDRO, CA 94577**  
**(ALAMEDA COUNTY)**  
**PROPOSED 80'-0" MONOPINE TOWER**

**ISSUED FOR:**

| REV | DATE     | DRWN | DESCRIPTION | QA  |
|-----|----------|------|-------------|-----|
| D   | 12-09-22 | SSO  | ZONING      | HMM |
| E   | 01-10-23 | SSO  | ZONING      | HMM |
| F   | 06-03-23 | CAM  | ZONING      | HMM |
| G   | 11-16-23 | SJA  | ZONING      | HMM |
| H   | 07-18-24 | GSM  | ZONING      | HMM |

**SEAL:**

**ZONING**  
 DO NOT USE FOR CONSTRUCTION

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**SHEET TITLE:**  
**ONE-LINE DIAGRAM**

**SHEET NUMBER:**  
**E-2**

**REVISION:**  
**H**

**TEP #:** 314190.336174