Attachment 1 Exhibit B - Project Plans

AT&T

FIRSTNET/AT&T SITE ID:	**CCL05539**	**PSTC SITE #:**	**CANC-SLEAN01**
FIRSTNET/AT&T SITE NAME:	**ALVARADO ST & CALLAWAY ST**	**SITE ADDRESS:**	**440 PERALTA AVENUE SAN LEANDRO, CA 94577**
FA LOCATION CODE:	**15521709**	**COUNTY:**	**ALAMEDA**
USID:	**314957**	**SITE TYPE:**	**MONOPINE**
PACE #:	**MRSFR077581**	**TOWER HEIGHT:**	**80'-0"**

SITE INFORMATION

PSTC SITE NAME:	**440 PERALTA**
SITE ADDRESS:	**440 PERALTA AVENUE 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 10217 BUCKMEADOWS DRIVE OAKLAND, CA 95361**
TOWER OWNER:	**PUBLIC SAFETY TOWERS, LLC 1903 WRIGHT PLACE, SUITE 140 CARLSBAD, CA 92008**
CARRIER/APPLICANT:	**AT&T 5001 EXECUTIVE PKWY SAN RAMON, CA 94583**
ELECTRIC PROVIDER:	**PG&E**
TELCO PROVIDER:	**AT&T**

PROJECT TEAM

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

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV
T-1	TITLE SHEET	H
GN-1	GENERAL NOTES	H
LS-1	SITE SURVEY	0
LS-2	SITE SURVEY	0
LS-3	NOTES	0
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.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY IN THE AREA FOR EMERGENCY SERVICE AND WIRELESS CUSTOMERS.

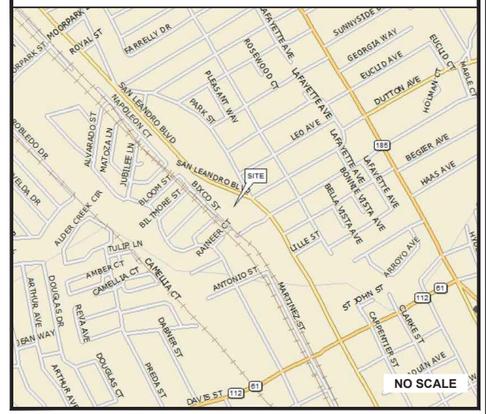
TOWER SCOPE OF WORK
- **INSTALL (1) 80'-0" MONOPINE TOWER**
- **INSTALL (12) ANTENNAS ON (9) MOUNTS**
- **INSTALL (18) RADIOS**
- **INSTALL (3) DC9 FIBER SQUIDS**
- **INSTALL (9) DC POWER TRUNKS**
- **INSTALL (3) FIBER TRUNKS**
- **INSTALL (3) SECTOR MOUNTS**

GROUND SCOPE OF WORK
- **INSTALL 33'-0"x33'-0" CMU WALLED COMPOUND**
- **INSTALL (1) 600A GUTTER**
- **INSTALL (1) 200A METER**
- **INSTALL (1) 17'-7"x10'-4" CONCRETE PAD**
- **INSTALL (1) WALK-UP-CABINET (WUC)**
- **INSTALL (1) 30 KW DIESEL GENERATOR**
- **INSTALL (1) GROUND LEVEL DC50 SPD**
- **INSTALL (1) 200A PTLC WITH CAMLOC**
- **INSTALL (1) 30"x30"x12" HOFFMAN BOX WITH CIENA ABOVE**
- **INSTALL (1) 50"x52" CONCRETE PAD FOR PRIMARY TRANSFORMER**
- **INSTALL (8) BATTERIES**

HAZARDOUS MATERIALS
- **ELECTROLYTE IN BATTERIES (DETAILS ON C-6)**

LOCATION MAP

VICINITY MAP



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.

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

REFERENCE DOCUMENTS:

RFDS VERSION: 1.02
DATE UPDATED: 10/19/2022

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

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

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SEAL:

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SHEET TITLE:
TITLE SHEET

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

TEP #: 314190.336174

PROJECT NOTES:

1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED PUBLIC SAFETY TOWERS, LLC OR ITS DESIGNATED REPRESENTATIVE.

2. 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.

3. THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H AND CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.

4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE.

5. 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.

6. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTION SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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 HALL BE REWORKED OR REPLACED.

16. 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.

17. 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.

18. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.

19. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

20. 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.

21. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.

22. 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.

23. 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.

24. 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.

25. THE CONTRACTOR SHALL PROVIDE DAILY UPDATES IN THE FORM OF WRITTEN NOTIFICATION VIA EMAIL OR APP PHOTOS TO THE BOINGO CONSTRUCTION MANAGER.

UTILITY NOTES:

1. 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.

2. ALL UTILITY RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE UTILITY REQUIREMENTS. FIELD TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL CONTACT UTILITIES AND LOCATOR SERVICE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

4. CONTRACTOR SHALL PROVIDE TRENCHING AND CONDUITS AS SHOWN OR AS REQUIRED BY LOCAL UTILITY.

5. NO PENETRATIONS TO THE TOWER FOUNDATION OF ANY KIND.

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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: GN-1

REVISION: H

TEP #: 314190.336174

NOTES:

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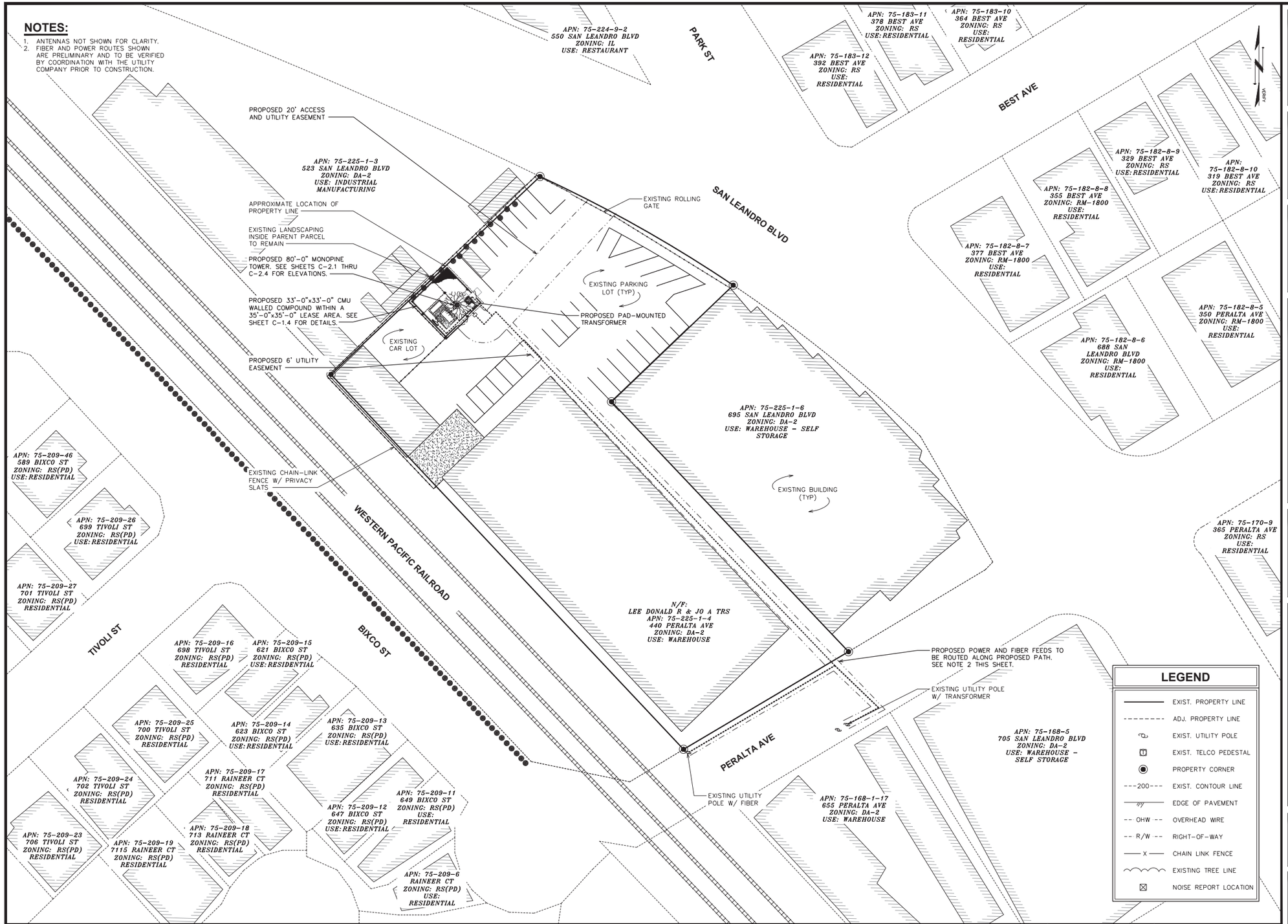

LEGEND

- 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 **OVERALL SITE PLAN**

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

0 30 60
SCALE IN FEET

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SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:	REVISION:
C-1.1	H

TEP #: 314190.336174

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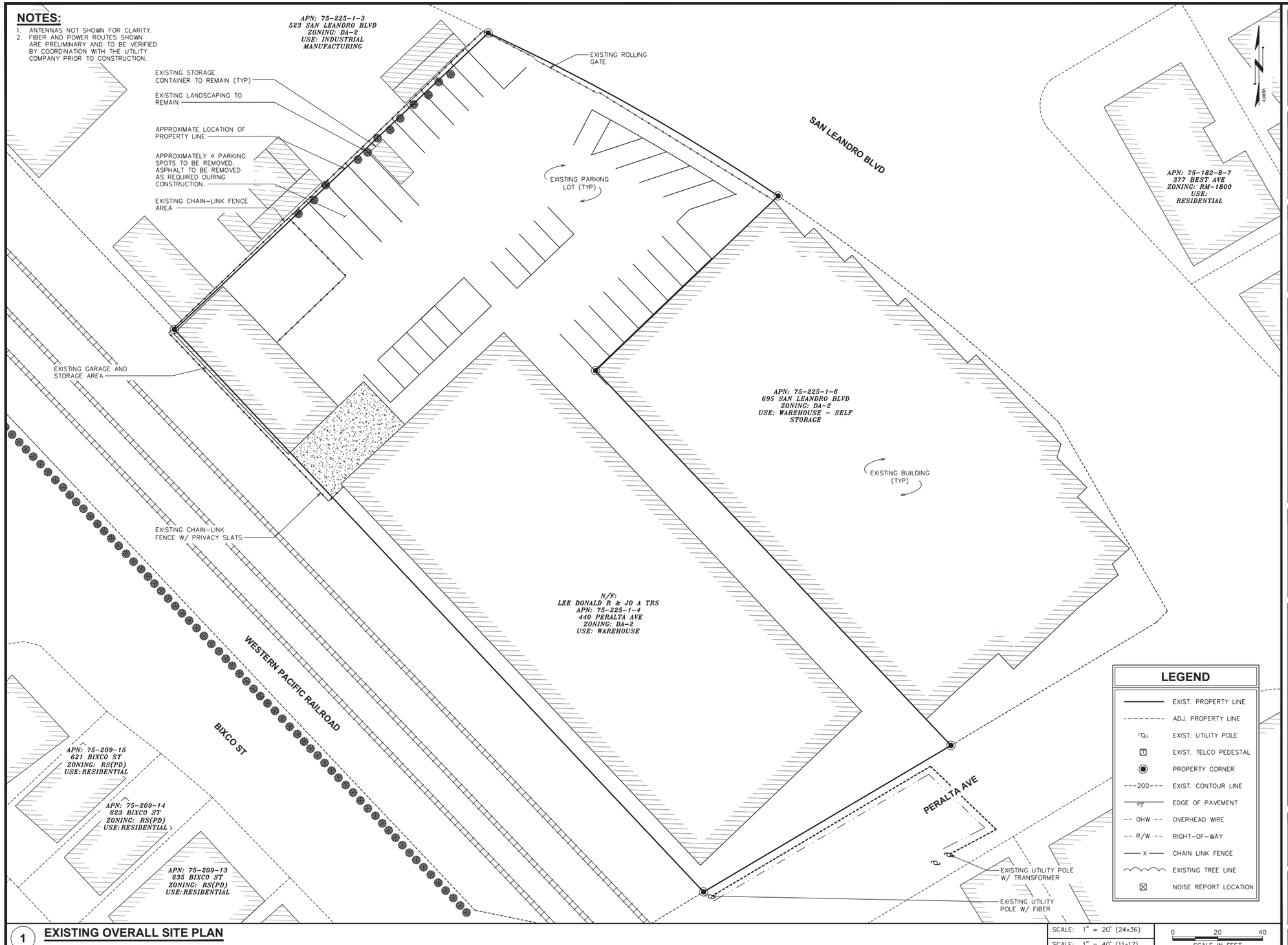

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- R/W RIGHT-OF-WAY
- X CHAIN LINK FENCE
- EXISTING TREE LINE
- NOISE REPORT LOCATION

1 **EXISTING OVERALL SITE PLAN**

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

0 20 40
SCALE IN FEET

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SHEET TITLE:
EXISTING SITE PLAN

SHEET NUMBER: C-1.2
REVISION: H

TEP #: 314190.336174

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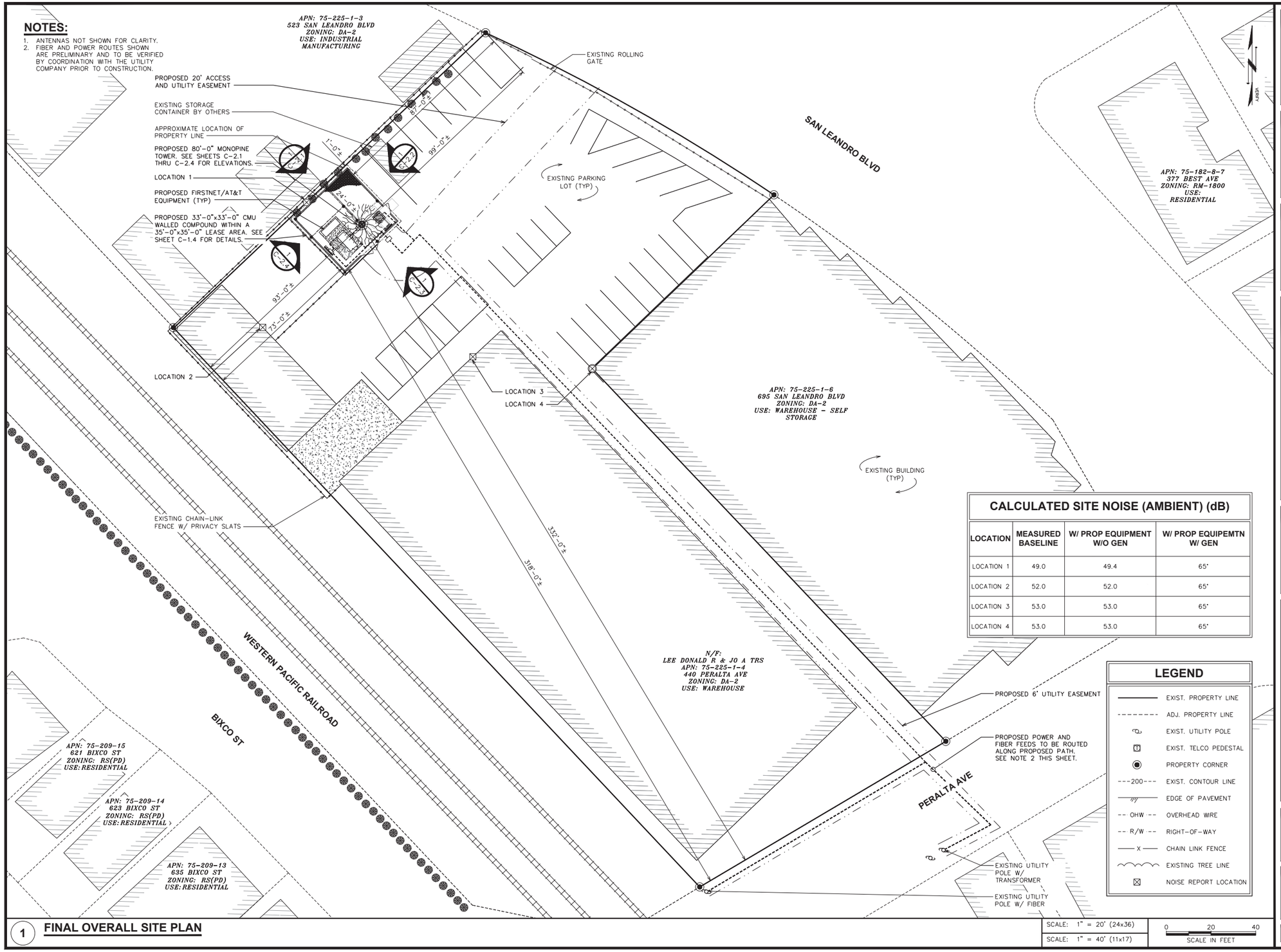

CALCULATED SITE NOISE (AMBIENT) (dB)

LOCATION	MEASURED BASELINE	W/ PROP EQUIPMENT W/O GEN	W/ PROP EQUIPEMTN 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*

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- -- OHW -- OVERHEAD WIRE
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1 **FINAL OVERALL SITE PLAN**

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SCALE: 1" = 40' (11x17)

0 20 40
SCALE IN FEET

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H	07-18-24	GSM	ZONING	HMM

SEAL:

ZONING
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SHEET TITLE:

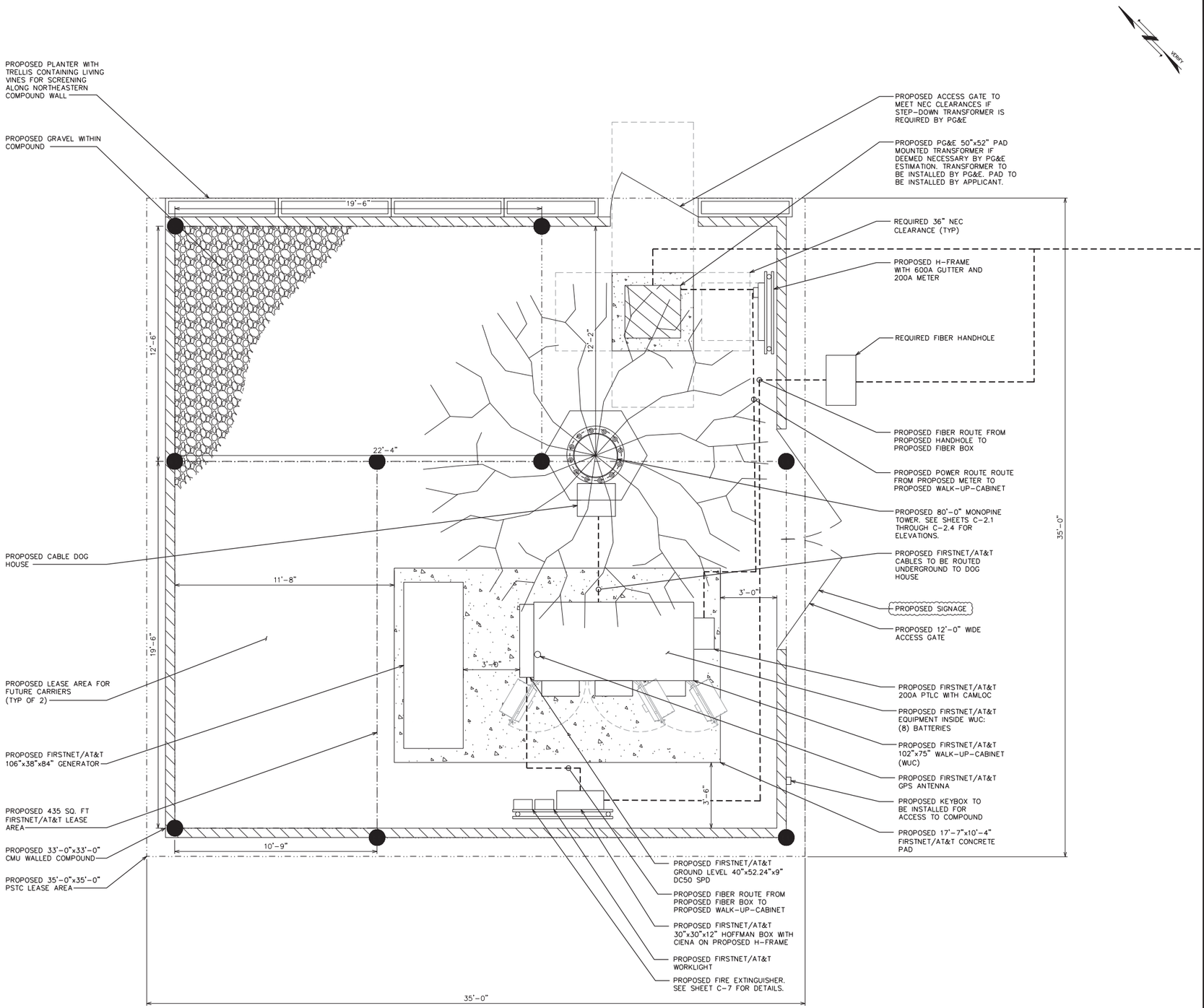
FINAL SITE PLAN

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 SHOWNON THIS SHEET FOR CLARITY. REFER TO SHEETS C-1.3 AND C-2.1-4 FOR LANDSCAPING DETAILS.



1 FINAL COMPOUND LAYOUT

SCALE: 3/8" = 1'-0" (24x36)
SCALE: 3/16" = 1'-0" (11x17)
0 2 4
SCALE IN FEET

PUBLICSAFETYTOWERS 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	08-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

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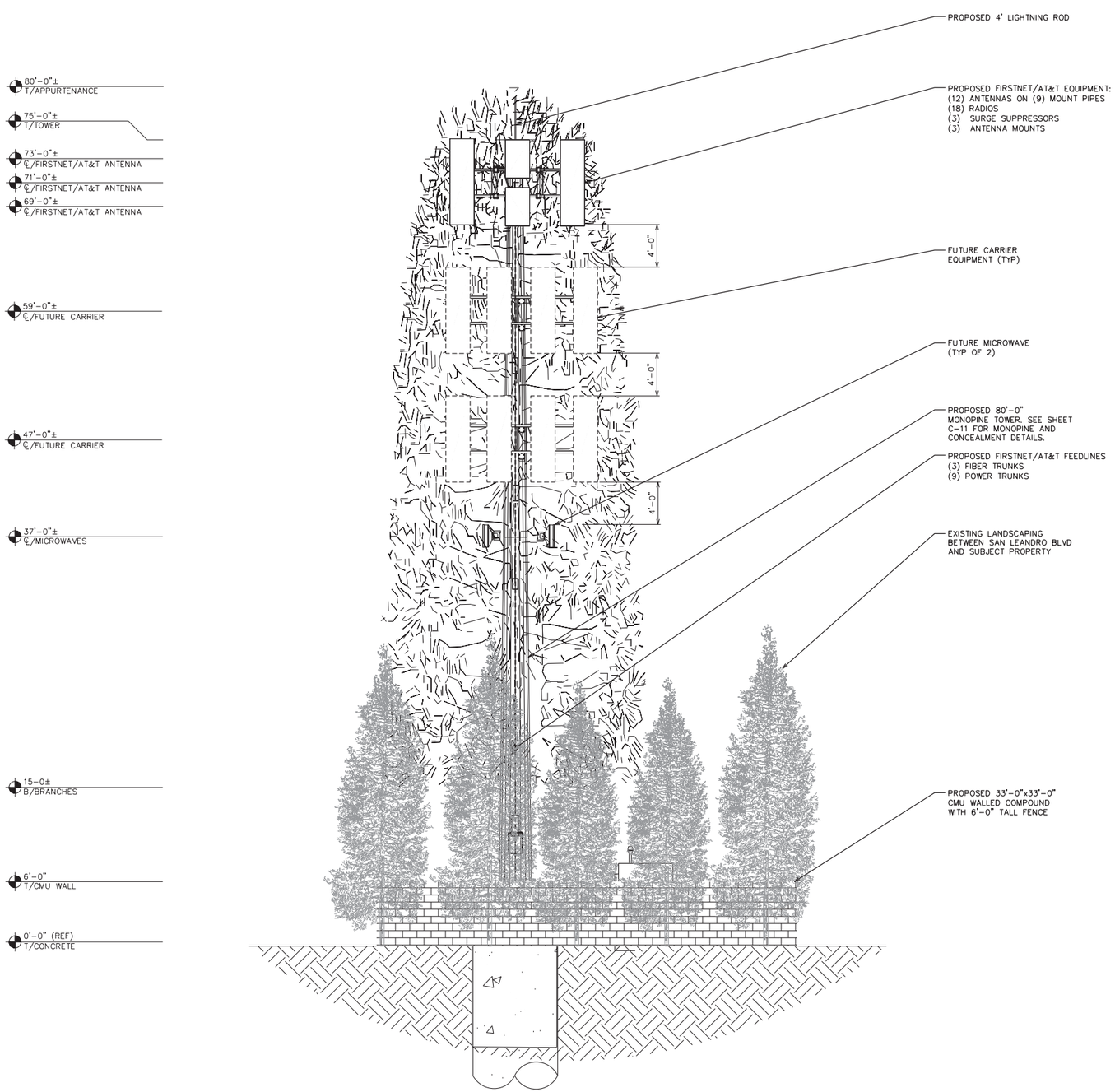
SHEET TITLE:
COMPOUND LAYOUT

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.



1 **FINAL NORTHWEST (SAN LEANDRO BLVD/ADJACENT PROPERTY) ELEVATION**

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

0 4 8
SCALE IN FEET

PUBLICSAFETYTOWERS COMPANY
1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

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FIRSTNET/AT&T ID: CCL05539
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& 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	08-03-23	CAM	ZONING	HMM
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H	07-18-24	GSM	ZONING	HMM

SEAL:

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SHEET TITLE:
FINAL NORTHWEST (BIXCO ST) ELEVATION

SHEET NUMBER: C-2.1
REVISION: H

TEP #: 314190.336174

NOTES:

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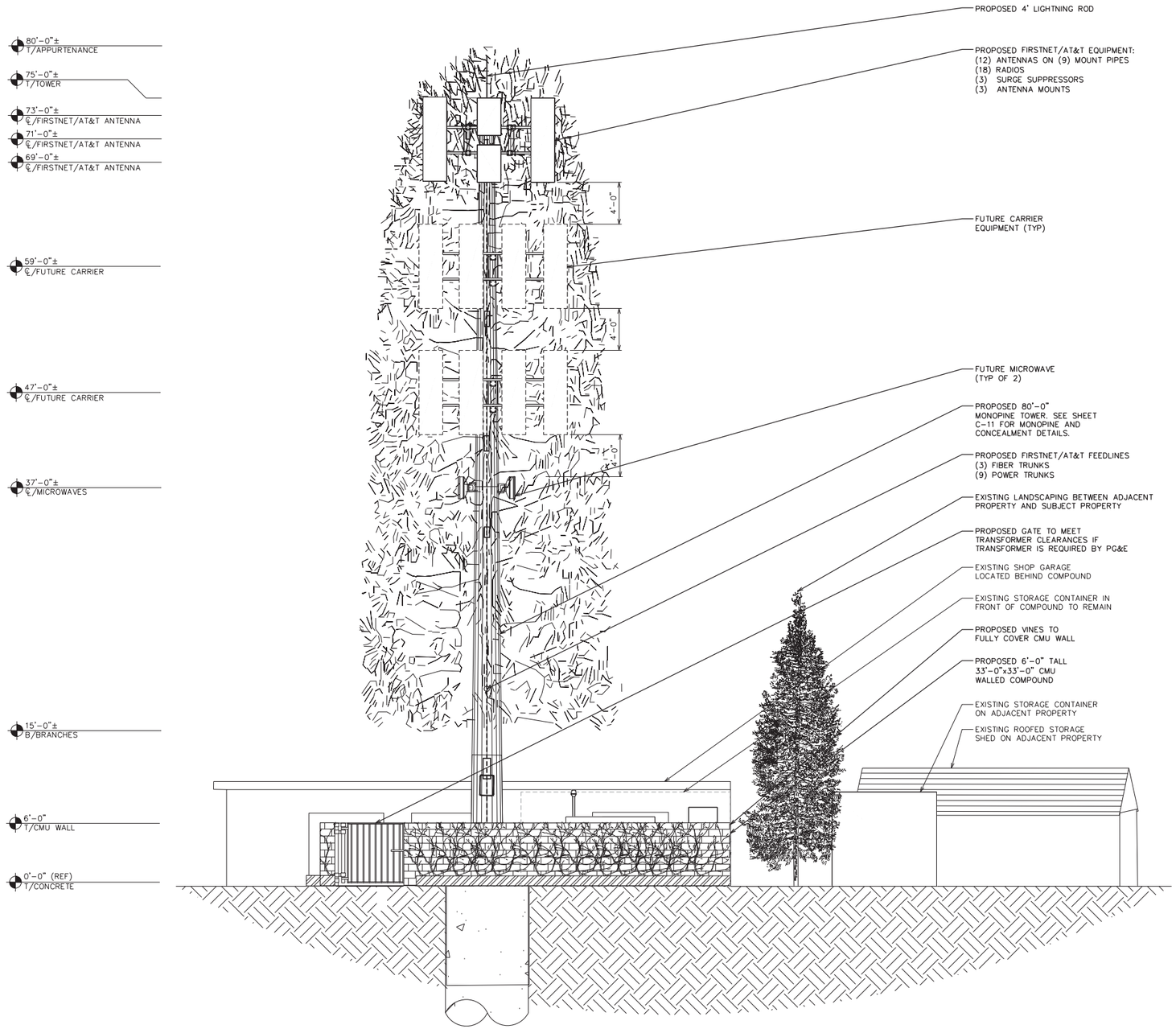

1 **FINAL NORTHEAST (SAN LEANDRO BLVD) ELEVATION**

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

0 4 8
SCALE IN FEET

PUBLICSAFETYTOWERS COMPANY
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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	08-03-23	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:	REVISION:
C-2.2	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.
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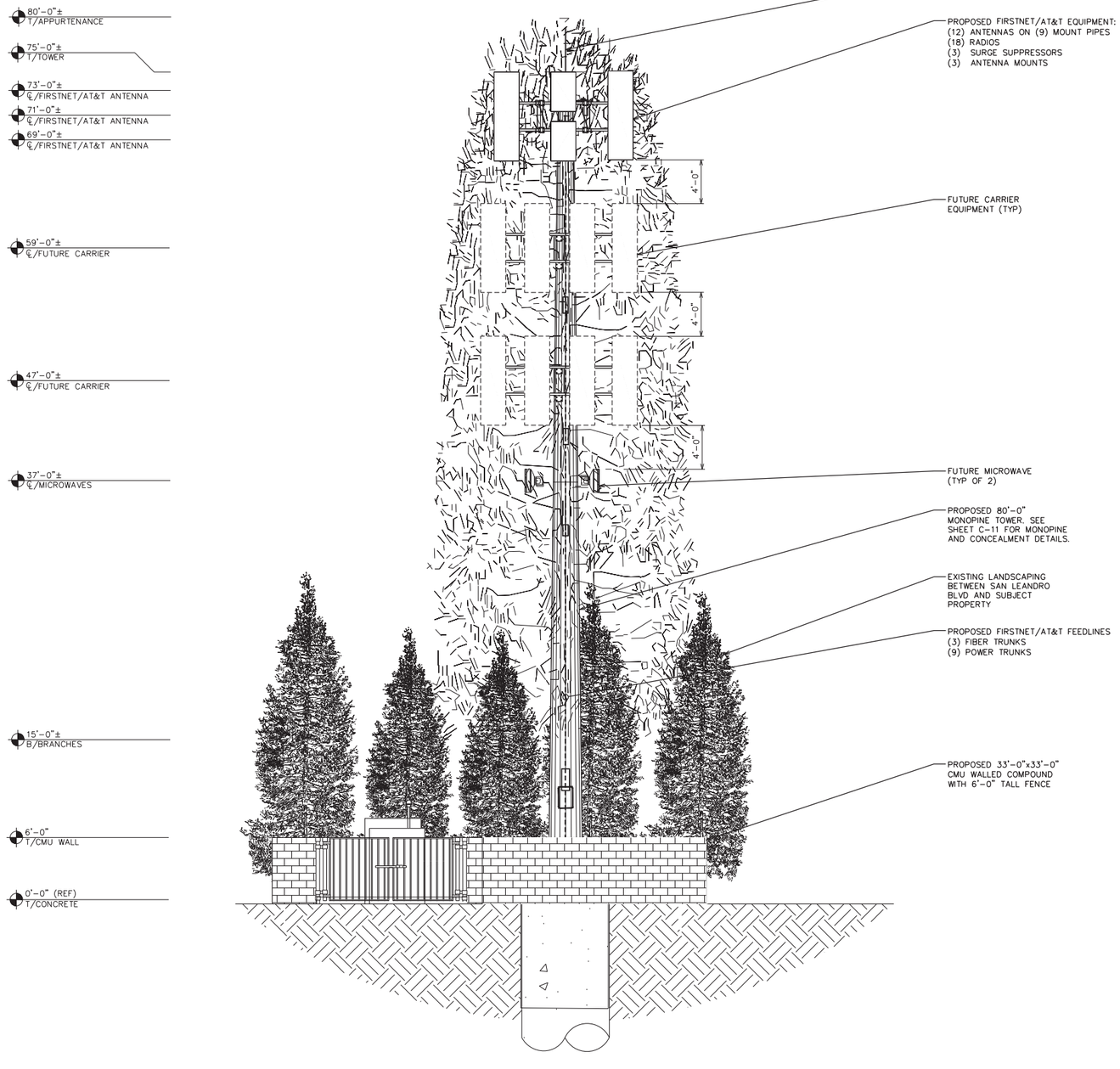

1 **FINAL SOUTHEAST (PERALTA AVE) ELEVATION**

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

0 4 8
SCALE IN FEET

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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	08-03-23	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:	REVISION:
C-2.3	H

TEP #: 314190.336174

NOTES:

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
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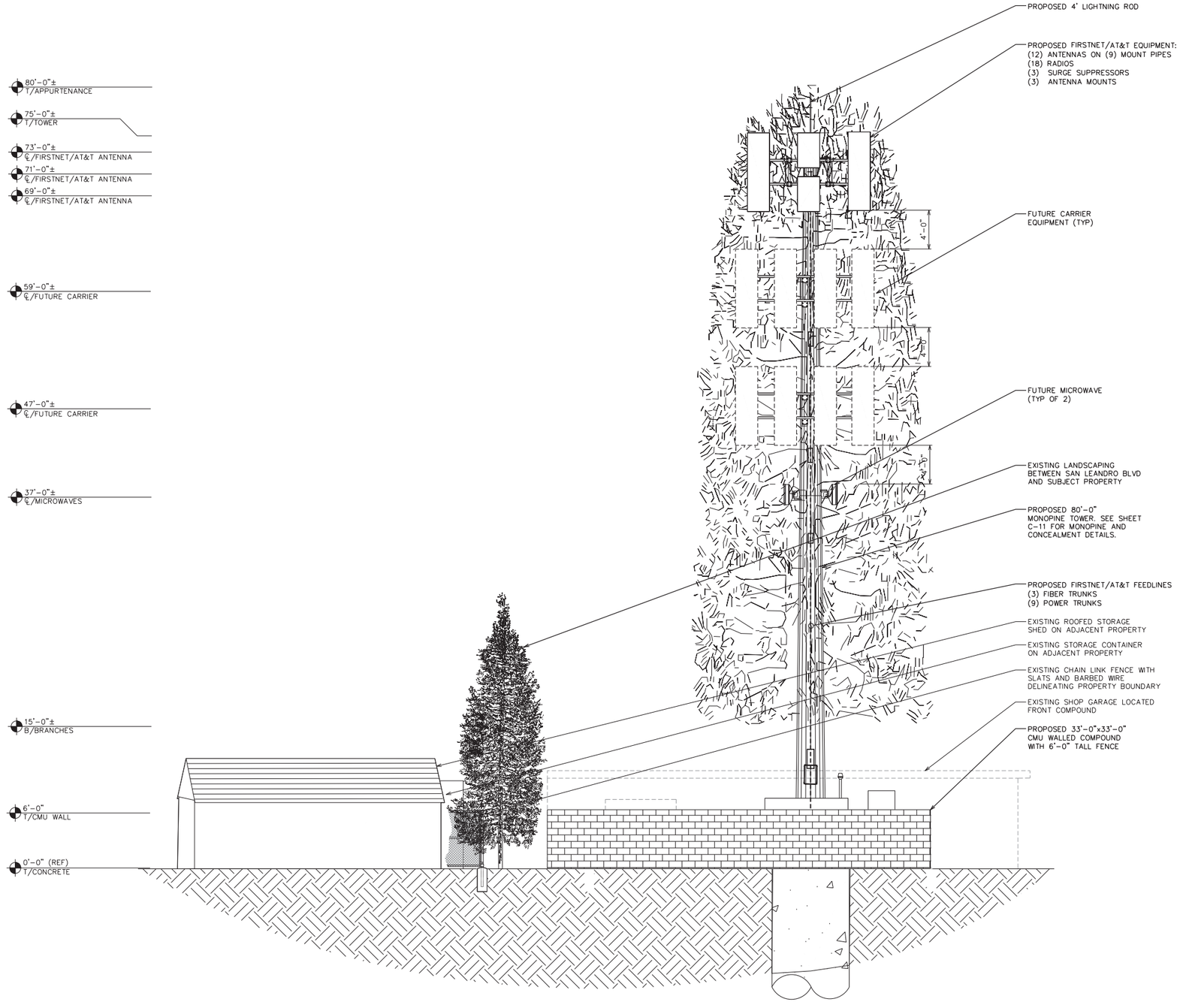
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.
4. COMPOUND WALL AND TOWER WOULD HAVE LITTLE TO NO VISIBILITY FROM BIXCO ST GIVEN THE SCREENING OF EXISTING TREES, OVERHEAD RAIL, AND EXISTING BUILDINGS.



1 **FINAL SOUTHWEST ELEVATION**

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

0 4 8
SCALE IN FEET

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& 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	08-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

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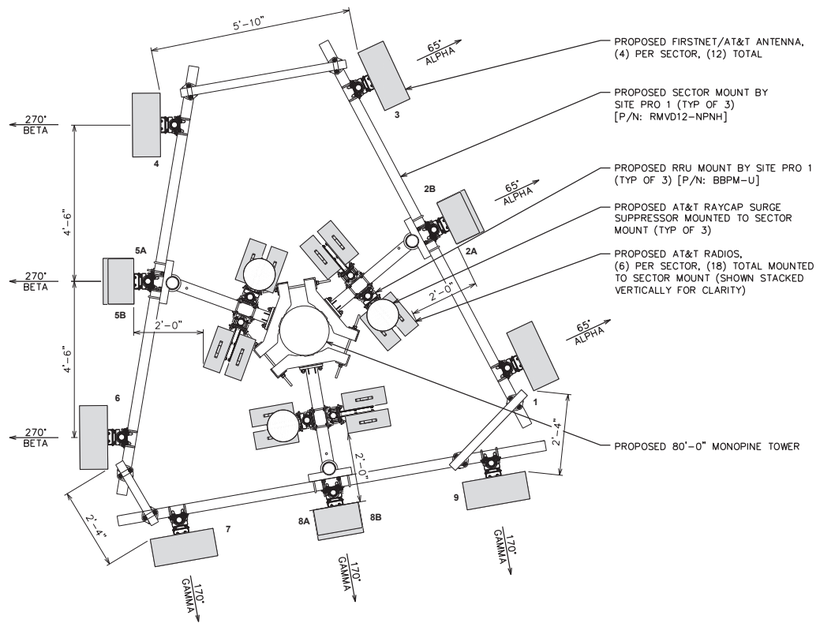
SHEET TITLE:
FINAL SOUTHWEST ELEVATION

SHEET NUMBER:	REVISION:
C-2.4	H

TEP #: 314190.336174

NOTE:
TEP DID NOT ANALYZE THE PROPOSED MOUNT SHOWN.



1 FINAL ANTENNA LAYOUT

SCALE: ½" = 1'-0" (24x36)
SCALE: ¼" = 1'-0" (11x17)

0 2 4
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 (3) FIBER TRUNKS	121'±	(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV (1) RADIO 4426 B66 (FUTURE)
ALPHA	2A	ERICSSON (AIR6449 B77D)	℄ @ 69'-0"±	65°			
ALPHA	2B	ERICSSON (AIR6419 B77G)	℄ @ 73'-0"±	65°			
ALPHA	3	QUINTEL (QD6616-7)	℄ @ 71'-0"±	65°			
BETA	4	QUINTEL (QD6612-3D)	℄ @ 71'-0"±	270°			(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV (1) RADIO 4426 B66 (FUTURE)
BETA	5A	ERICSSON (AIR6449 B77D)	℄ @ 69'-0"±	270°			
BETA	5B	ERICSSON (AIR6419 B77G)	℄ @ 73'-0"±	270°			
BETA	6	QUINTEL (QD6616-7)	℄ @ 71'-0"±	270°			
GAMMA	7	QUINTEL (QD6612-3D)	℄ @ 71'-0"±	170°			(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV (1) RADIO 4426 B66 (FUTURE)
GAMMA	8A	ERICSSON (AIR6449 B77D)	℄ @ 69'-0"±	170°			
GAMMA	8B	ERICSSON (AIR6419 B77G)	℄ @ 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.

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440 PERALTA

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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	08-03-23	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:
FINAL ANTENNA LAYOUT & SCHEDULE

SHEET NUMBER: C-3
REVISION: H

TEP #: 314190.336174

2.2 System Configuration

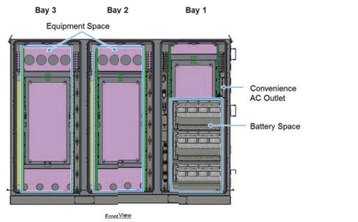

Figure 2-2 Multi-Bay Cabinet (Front View)

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.

Table 2-1 Cabinet Specifications

Item	Specification/Function
AC Input Range	
AC Input Voltage	1W+N+FG 100~120VAC
AC Input Current (maximum)	12A (Max.)
AC Input Frequency	50/60Hz
DC Input Range	
DC Input Voltage	40 - 60VDC (54V typical)
DC Input Current Rating	224A (max)
Battery Section	
Battery Trays	(3) Trays arranged for -48V battery strings, designed for: GNB Marathon M12V180FT Enersys SBS190F Enersys SBS170F
Climate Control	
Control & Supervisor Unit	Delta controller
Cooling	(3) 200W/°K Thermosiphon HEX Cooling Capacity 9.1kW Maintains equipment inlet <65°C with exterior ambient <46°C
Heating	(4) 1500W DC Heaters
Environmental	
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	0~95% Relative Humidity, Non-Condensing
Altitude	-100 feet to +10,000 feet
Acoustic noise	≤ 65dBA @ +40°C equipment inlet
Protection Class	IP55 (EN 60529) NEBS III (GR-487)

2.4 Dimensions and Weight

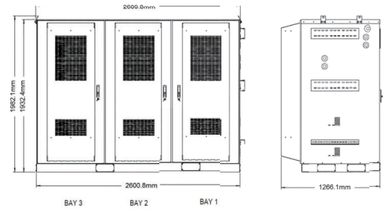

Figure 2-3 Cabinet Dimensions

Item	Specification/Function
Dimensions	2600.8W x 1932.4H x 1266.1D mm (102"W x 72"H x 49.5"D + 4" plinth)
Weight	2270* lbs. (* 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.

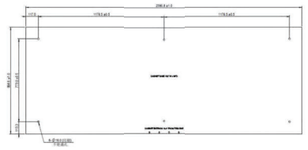

Figure 3-11 Mounting Template

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.

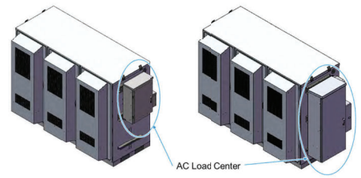

Figure 3-16 Cabinet with AC Load Center

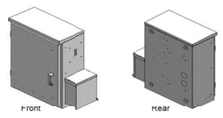

Figure 3-17 AC Load Center - MTS

Figure 3-18 AC Load Center - ATS

Note! The cabinet provides mounting rails and AC cable entry ports arranged for mounting of Intersect PTLC-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 PTLC-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

1 **3-BAY WALK-UP-CABINET (WUC) DETAIL**
SCALE: N.T.S.

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PROPOSED 80'-0"
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H	07-18-24	GSM	ZONING	HMM

SEAL:

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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.

Standby Power Rating
30 kW, 38 kVA, 60 Hz

Prime Power Rating*
27 kW, 34 kVA, 60 Hz

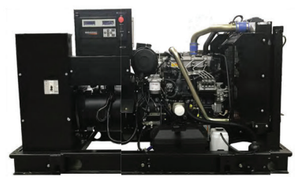


Image used for illustration purposes only.

*EPA Certified Prime ratings are not available in the US or its Territories

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
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- 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 gensets 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.

STANDARD FEATURES

ENGINE SYSTEM
- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Se Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

FUEL SYSTEM
- Fuel Lockoff Solenoid
- Primary Fuel Filter

COOLING SYSTEM
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

ELECTRICAL SYSTEM
- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

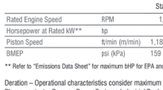
ALTERNATOR SYSTEM
- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)
- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)
- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

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
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- 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 Annunciated 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

Alarms and Warnings
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

CONFIGURABLE OPTIONS

ENGINE SYSTEM
- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Enclosed Units Only)

FUEL SYSTEM
- NPT Flexible Fuel Line

ELECTRICAL SYSTEM
- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM
- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

GENERATOR SET
- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS
- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE
- Weather Protected Enclosure
- Level 1 Sound Attenuator
- Level 2 Sound Attenuator
- Level 2 Sound Attenuator with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Open Alarm Switch
- Enclosure Heater
- Damper Alarm Contacts

WARRANTY (Standby Gensets Only)
- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

CONTROL SYSTEM
- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Ground Fault Annunciation
- 120V GFCI and 240V Outlets
- Remote Communication - Modem
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)
- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overfill Protection Valve
- 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12' Vent System
- Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM
- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM
- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM
- 3rd Breaker System

GENERATOR SET
- Special Testing

FUEL TANKS
- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in³ (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	1,980
Fan Diameter - in (mm)#	18 (457)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y2V
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	< 50
Standard Excitation	Synchronous Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA)

		skVA vs. Voltage Dip			
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
A0035044N21	20	K0035124Y2	61	K0035*24Y21	46
A0040044N21	24	K0040124Y2	76	K0040*24Y21	58
A0050044N21	31	K0050124Y2	98	K0050*24Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m): 3 (1)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph): 16.6 (63)

Diesel - gph (Lph)	
Percent Load	Standby
25%	1.0 (3.7)
50%	1.4 (5.2)
75%	2.0 (7.5)
100%	2.8 (10.5)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	cfm (m^3/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199280SSD
Maximum Additional Radiator Backpressure	in H_2O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power - cfm (m^3/min)	88 (2.5)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	49
Piston Speed	ft/min (m/min)	1,181 (360)
BMEP	psi (kPa)	159 (1,096)

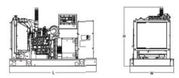
EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	2966 (8.4)
Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Exhaust Temperature (Rated Output)	°F (°C)	892 (478)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

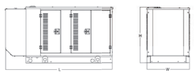
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Prime - See Bulletin 0187510SSB

DIMENSIONS AND WEIGHTS*



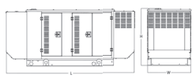
OPEN SET

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	–	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,456 - 1,841 (661 - 745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	1,936 - 2,121 (878 - 963)
47	132 (500)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,166 - 2,351 (983 - 1,067)
67	190 (719)	76.0 (1,930) x 37.4 (950) x 79.3 (2,014)	2,380 - 2,565 (1,081 - 1,160)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,375 - 2,560 (1,078 - 1,162)
107	301 (1,136)	92.9 (2,330) x 37.4 (950) x 85.3 (2,167)	2,438 - 2,623 (1,196 - 1,190)



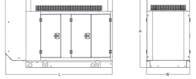
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only: Steel	Aluminum
No Tank	–	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	106.0 (2,692) x 38.0 (965) x 64.0 (2,134)	372 (169)	241 (109)
67	190 (719)	94.8 (2,409) x 38.0 (965) x 84.0 (2,134)		
75	211 (799)	76.0 (1,930) x 38.0 (965) x 86.5 (2,198)		
107	301 (1,136)	92.9 (2,360) x 38.0 (965) x 90.0 (2,287)		



LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only: Steel	Aluminum
No Tank	–	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (229)	338 (153)
67	190 (719)	112.5 (2,857) x 38.0 (965) x 84.0 (2,134)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 90.0 (2,287)		



LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only: Steel	Aluminum
No Tank	–	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	510 (231)	341 (155)
67	190 (719)	106.0 (2,692) x 38.0 (965) x 84.0 (2,134)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 90.0 (2,287)		

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

* All measurements are approximate and forestimation 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 53189
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Part No. 1000002484
Rev. C 10/19/2020

PUBLICSAFETYTOWERS 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	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

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:
GENERATOR DETAILS

SHEET NUMBER: C-5
REVISION: H

TEP #: 314190.336174

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

connect@alpinepowersystems.com
877-993-8855

ALPINE POWER SYSTEMS
A Division of TFI, Inc. est. 1963

Click to view product web page

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

EnerSys® Power/Full Solutions | RESERVE POWER

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

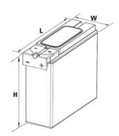
- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F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

Standards

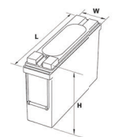
- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

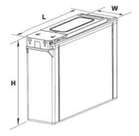
Cell Type	Nominal Capacity (Ah) 10 hr rate to 1.80Vpc @20°C	Nominal Capacity (Ah) 8 hr rate to 1.75Vpc @77°F	Nominal Dimensions Length in	Length mm	Width in	Width mm	Height in	Height mm	Weight - Volumes Unpacked lbs	Unpacked kg
SBS B8F	31	31	11.9	303	3.8	97	6.3	159	22.7	10.3
SBS B10F	38	38	11.9	303	3.8	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



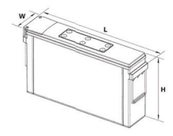
SBS B8F-B14F



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

1 **PROPOSED BATTERY DETAILS**
SCALE: N.T.S.

PUBLICSAFETYTOWERS 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

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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	08-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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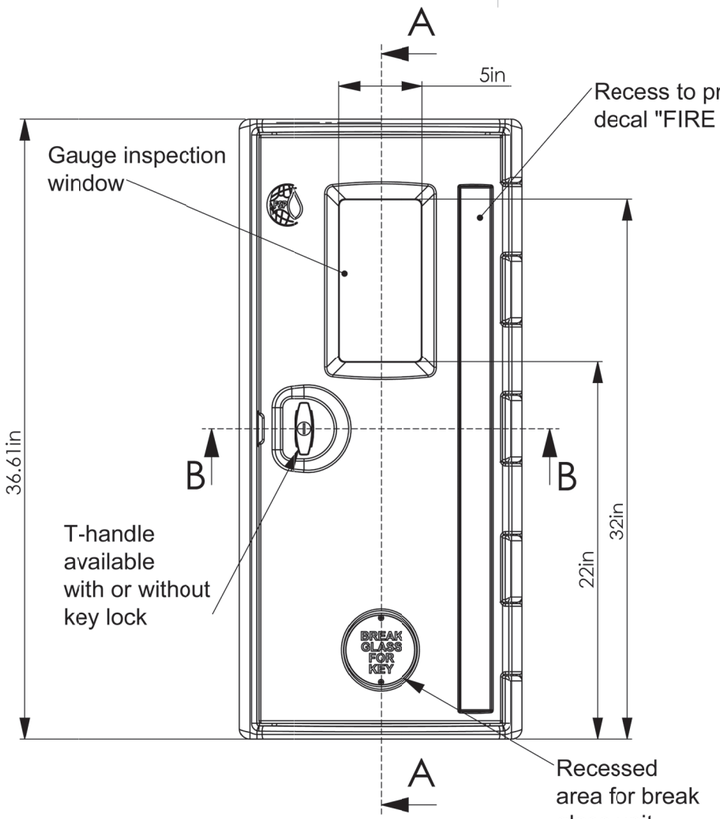
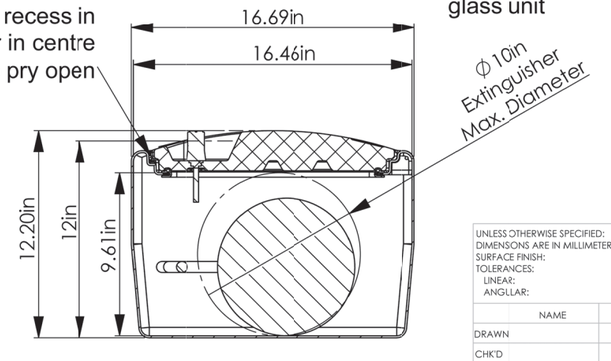
SHEET TITLE:
BATTERY DETAILS

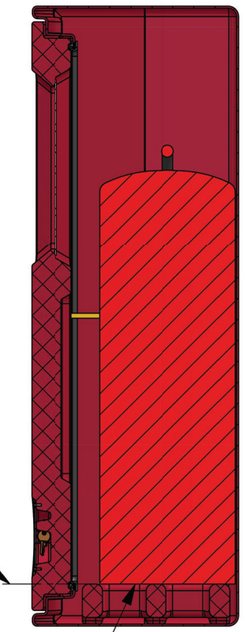
SHEET NUMBER: C-6
REVISION: H

TEP #: 314190.336174





SECTION B-B



SECTION A-A

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	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					
				MATERIAL:	
				WEIGHT:	

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TITLE: CFE900 Fire Extinguisher Cabinet

DWG NO. CFE900 | A3

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

1 PROPOSED FIRE EXTINGUISHER DETAIL
SCALE: N.T.S.

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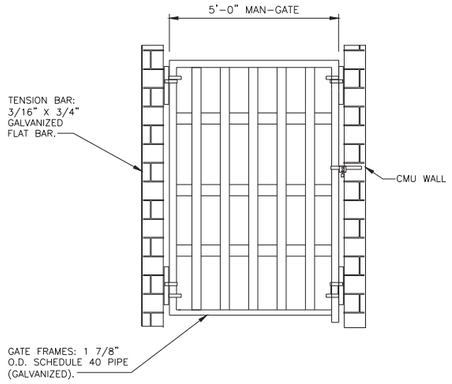
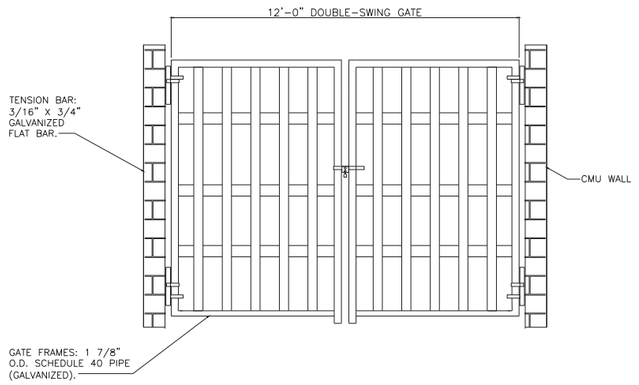
FIRE EXTINGUISHER DETAIL

SHEET NUMBER: C-7
REVISION: H

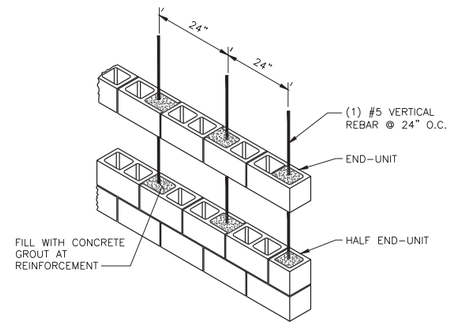
TEP #: 314190.336174



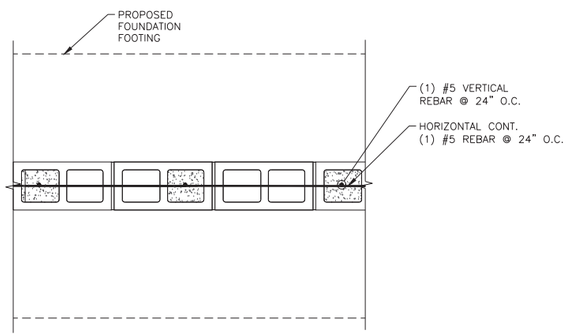
1 MAN-GATE DETAIL
SCALE: N.T.S.



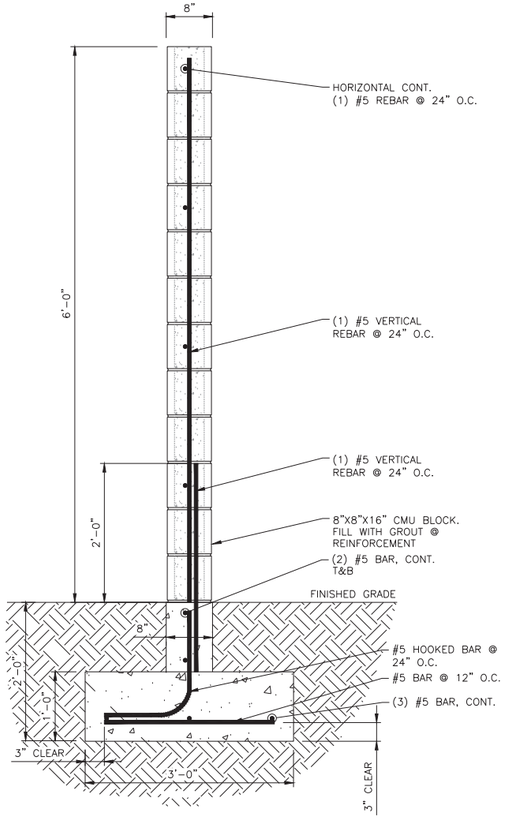
2 DOUBLE-SWING GATE DETAIL
SCALE: N.T.S.



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
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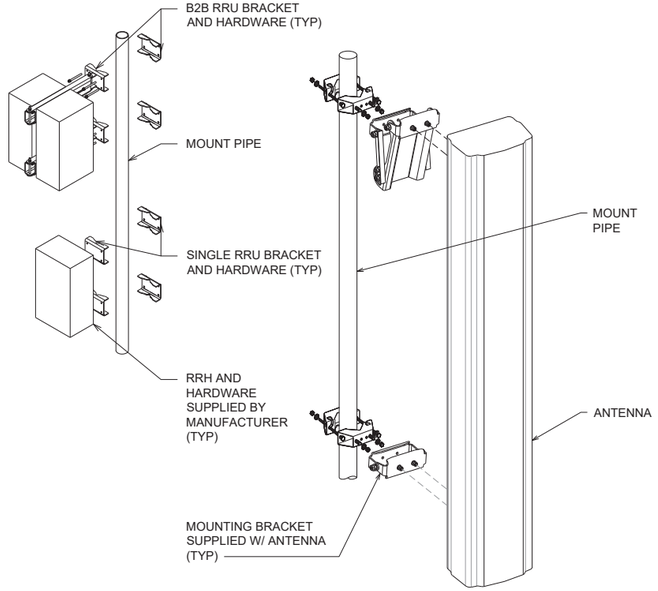
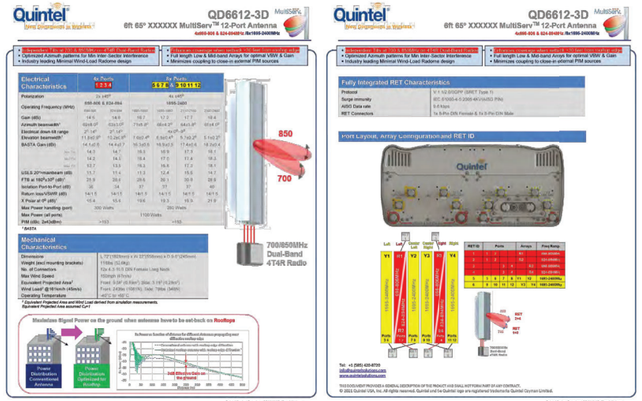
SHEET TITLE:
CMU WALL DETAILS

SHEET NUMBER: C-8
REVISION: H

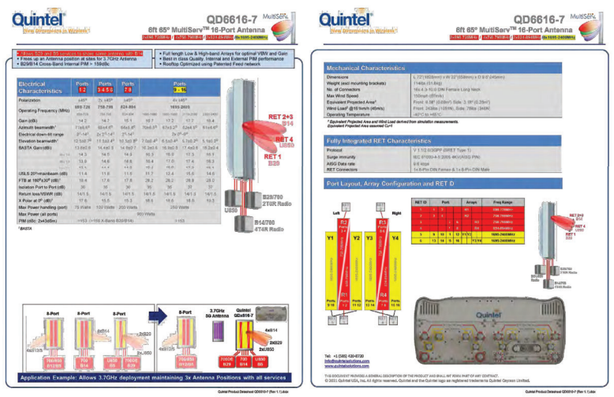
TEP #: 314190.336174



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



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



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
- Suppor: number of layers: DL/UL 16/8

AIR 6449 B77D/ C-Band	Height	Width	Depth	Weight
wo 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	30.8 in (783 mm)	16.1 in (408 mm)	10.8 in (273 mm)	

- 4 x 25 Gbps eCPRI, (compatible to 10G) eCPRI SFP28
- -48 VDC, max ~ 1360W (80%TX-20%RX), Typical TBD
- -40 to +55 ℃, (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
IBW/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 = 788 – 798 MHz
- CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. **Install 1 SFP and connect 1 fiber pair to the RRUS 4478 during initial install.**
- Only use Ericsson supplied and approved SFPs **RDH102652/5** until 12/1/2017, after use **RDH102474/5**
- 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/800**mm 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: **8.26**" (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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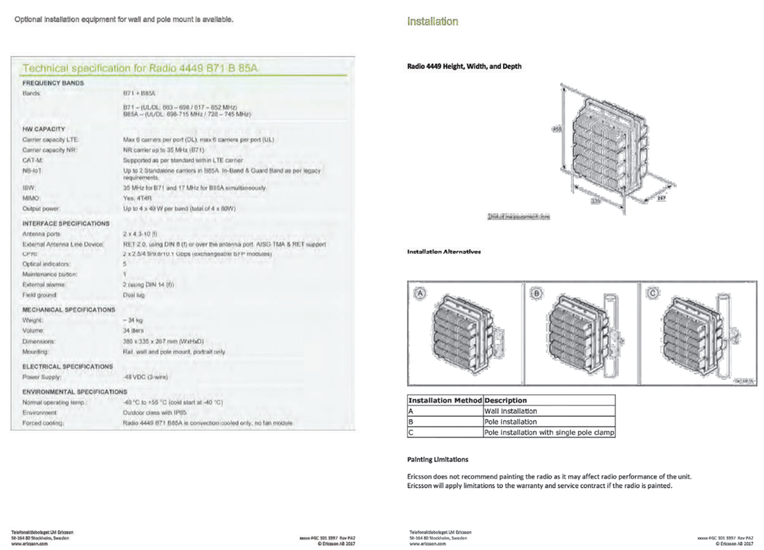
EQUIPMENT DETAILS

SHEET NUMBER:	REVISION:
C-9	H

TEP #: 314190.336174

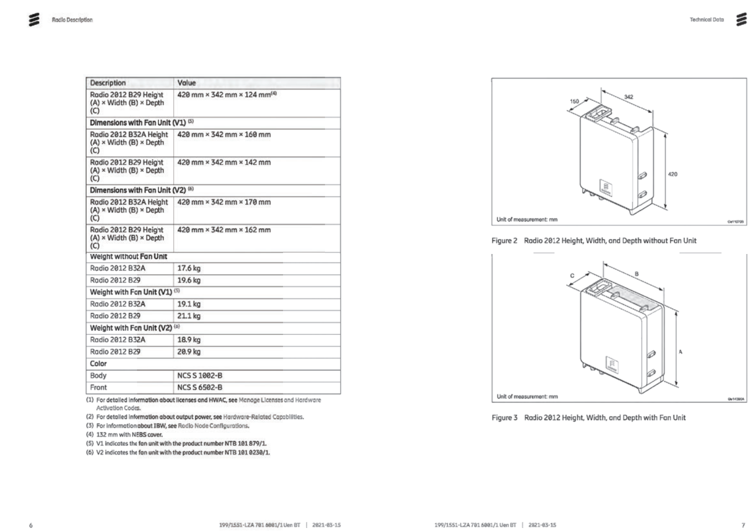


1 PROPOSED RRUS 4449 B5/B12 DETAIL

SCALE: N.T.S.

2 PROPOSED RRUS 8843 B2/B66A DETAIL

SCALE: N.T.S.



3 PROPOSED RRUS 2012 B29 DETAIL

SCALE: N.T.S.

4 PROPOSED RRUS 4415 B30 DETAIL

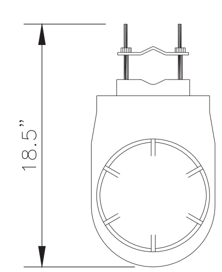
SCALE: N.T.S.

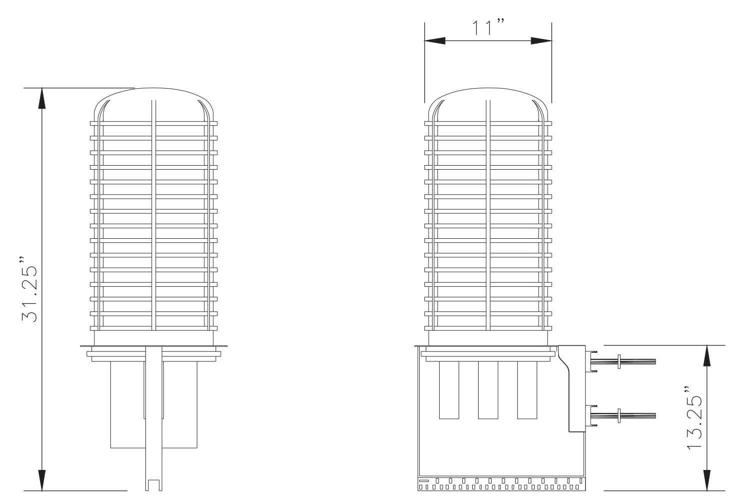
RAYCAP

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.

6 NOT USED

SCALE: N.T.S.

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C-10	H

TEP #: 314190.336174

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)

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.

LARSON MONO-PINE OPTIONS

STANDARD PINE BARK

STANDARD ELM 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 t o achieve the best match to native trees in an area.
- 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.

AGED PINE BARK

PREMIUM PINE BARK

1 MONOPINE CAMOFLAUGE DETAILS
SCALE: N.T.S.

valmont TELECOM Larson®
INNOVATORS OF CONCEALMENT SOLUTIONS

Antenna Sock Installation Instructions

USE OF THIS DOCUMENT
This manual is intended to describe the installation of Larson® monopine, monoeucalyptus, and monobroadleaf/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 radios must use the RRU sock assembly that includes the metal hoop assembly to facilitate air flow.

COMPLIANCE WITH REGULATIONS AND GOOD PRACTICE
It is the responsibility of the customer, installing contractor, and all personnel involved with 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 pevious 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 mustbe considered. Fall arresting systems, which include lifelines, body harnesses, and otherassociated equipment, must be used at all timeswhen 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 thfall zone and be protected against falling objects.

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

Revision 1
6/26/2024

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INNOVATORS OF CONCEALMENT SOLUTIONS

EQUIPMENT LIST
Larson antenna sock kits consist of the following items:

- (1) foliated antenna sock (various height, width, and foliage densities are available) see 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-SWSF

Length	Foliage Type	Width	Density
72 72" Long 96 96" Long	PIN Pine Foliage EUC Eucalyptus Foliage ELM Elm Foliage	SW Standard Width (36") WW Wide Width (48")	SF Standard Foliage Density HF Heavy Foliage Density

Revision 1
6/26/2024

valmont TELECOM Larson®
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ANTENNA SOCK INSTALL

1. Install the antennas in accordance with the manufacturers' instructions.
2. Paint exposed antenna surfaces (if permitted by the manufacturer) monopine and monobroadleaf/elm should be painted "Larson Base Brown" and monoeucalyptus should be painted High Tea SW6159, 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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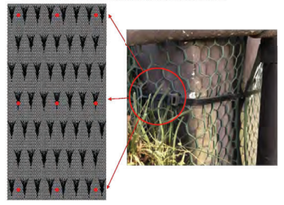
3. Remove the antenna socks from the box and verify all items listed in the Equipment List section are present.
4. While the antenna sock is still on the ground, lace the 48" UV zip ties through the netting in the nine locations shown below. The vertical spacing of the zip ties should be 6" from the 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. Example below is for a 6' x 3' (standard width) antenna sock.



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6/26/2024

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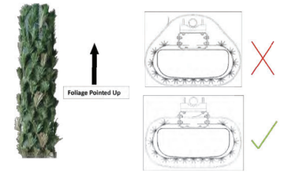
5. Raise the antenna sock to the antennalocation, the antenna sock should be centered on the antenna both on the vertical and horizontal axes. The loose tufts of foliage should point skyward for correct orientation. Starting with the uppermost zip tie, wrap the antenna sock radially around the antenna. 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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6/26/2024

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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 LarsonCamoOrders@valmont.com. Please have the site location and site ID ready.

Revision 1
6/26/2024

2 ANTENNA SOCK DETAILS
SCALE: N.T.S.

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SHEET TITLE:
CONCEALMENT DETAILS

SHEET NUMBER: C-11
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

1 **PROPOSED AC PANEL SCHEDULE**
SCALE: N.T.S.

PUBLICSAFETYTOWERS 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	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

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:
AC PANEL SCHEDULE

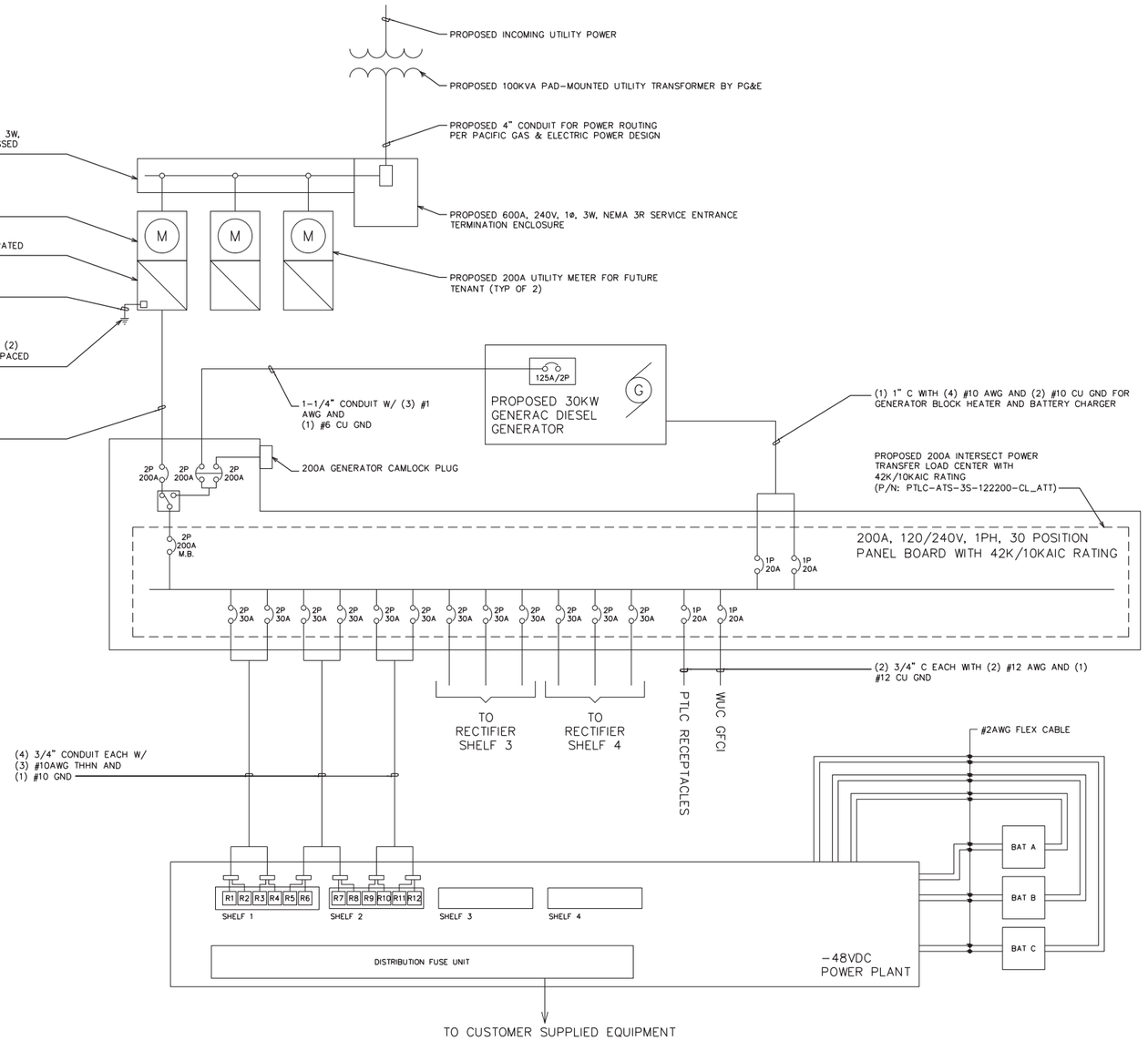
SHEET NUMBER: **E-1**

REVISION: **H**

TEP #: 314190.336174

NOTES:

1. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
4. CONTRACTOR SHALL LABEL METER SOCKET WITH SERVICE OWNER NAMEPLATE WITH ½" HEIGHT MINIMUM LETTERS.
5. 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.
6. CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.



1 PROPOSED ONE-LINE DIAGRAM
SCALE: N.T.S.

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SHEET TITLE:
ONE-LINE DIAGRAM

SHEET NUMBER:	REVISION:
E-2	H

TEP #: 314190.336174