



FIRSTNET/AT&T SITE ID: CVL06561
FIRSTNET/AT&T SITE NAME: CVL06561
FA LOCATION CODE: 15725000
USID: 315736
PACE #: MRSFR088753

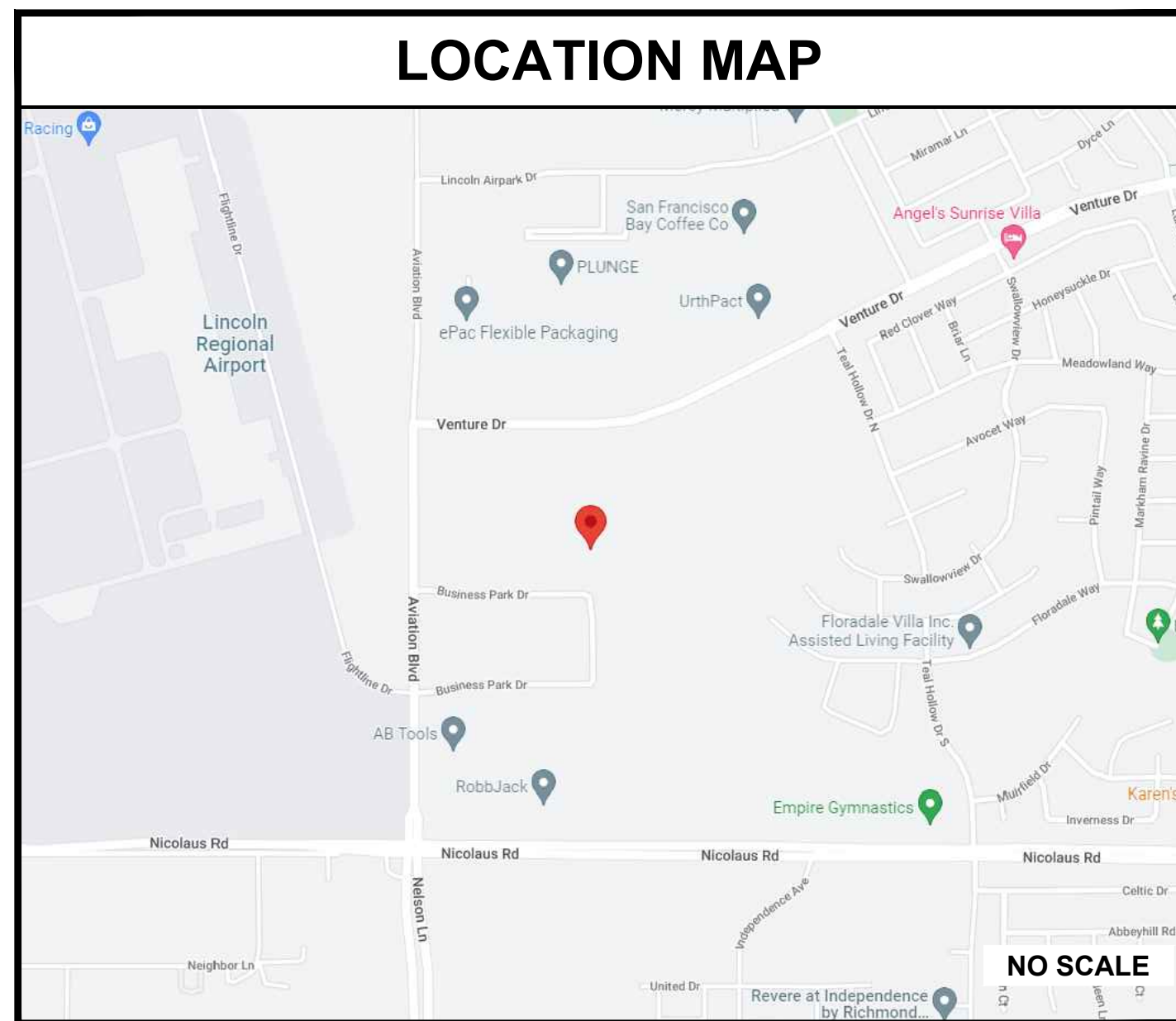
PSTC SITE #: CANC-LINC01
SITE ADDRESS: 600 BUSINESS PARK DR
 LINCOLN, CA 95648
COUNTY: PLACER
SITE TYPE: MONOPOLE
TOWER HEIGHT: 85'-0"



SITE INFORMATION	
PSTC SITE NAME:	LINCOLN AIRPORT
SITE ADDRESS:	600 BUSINESS PARK DR LINCOLN, CA 95648
COUNTY:	PLACER
MAP/PARCEL #:	021-570-088
AREA OF CONSTRUCTION:	2,500 SQ FT
LATITUDE:	N 38° 54' 08.01" (38.902225°) [NAD83]
LONGITUDE:	W 121° 20' 11.51" (-121.336530°) [NAD83]
GROUND ELEVATION:	128.2'± [NAVD88]
CURRENT ZONING:	LLI
JURISDICTION:	CITY OF LINCOLN
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	VB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CALLAGHAN STACIE L & CALLAGHAN MARK E 2921 OLD OAK TREE WAY ROCKLIN, CA 95765
TOWER OWNER:	PUBLIC SAFETY TOWERS, LLC 1903 WRIGHT PLACE, SUITE 140 CARLSBAD, CA 92008
CARRIER/APPLICANT:	AT&T 5005 EXECUTIVE PKWY SAN RAMON, CA 94583
ELECTRIC PROVIDER:	PG&E
TELCO PROVIDER:	TBD

DRAWING INDEX		
SHEET #	SHEET DESCRIPTION	REV
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GN-1	GENERAL NOTES	I
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LS-2	SURVEY DETAIL	0
C-1.1	SITE PLAN	I
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C-2.3	FINAL ELEVATION	I
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C-5	GENERATOR DETAILS	I
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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.



APPROVALS	
AT&T (RF):	_____
DATE:	_____
AT&T OPERATIONS:	_____
DATE:	_____
SITE ACQUISITION:	_____
DATE:	_____
CONSTRUCTION MANAGER:	_____
DATE:	_____
PROPERTY OWNER:	_____
DATE:	_____
ZONING:	_____
DATE:	_____
PROJECT MANAGER:	_____
DATE:	_____

FIRSTNET/AT&T ID: CVL06561

PSTC #: CANC-LINC01
LINCOLN AIRPORT

600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)

PROPOSED 85'-0" MONOPOLE TOWER

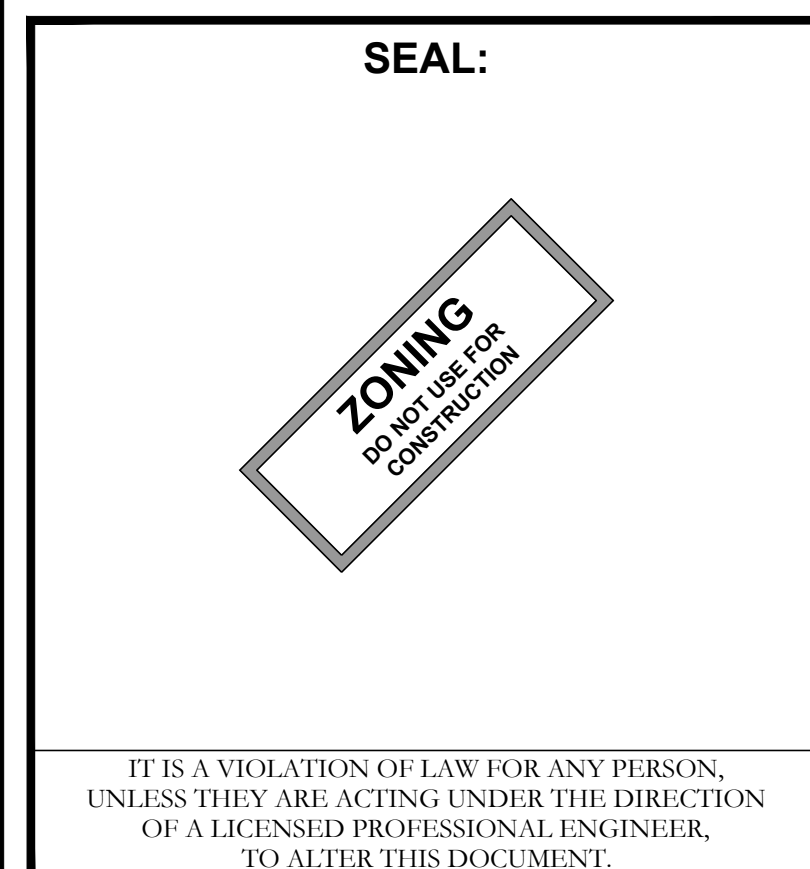
ISSUED FOR:				
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G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PSS	ZONING	HMM
I	10-10-23	PSS	ZONING	HMM

DIRECTIONS FROM 5005 EXECUTIVE PARKWAY, SAN RAMON:
 HEAD WEST THEN TURN RIGHT ONTO EXECUTIVE PARKWAY. TURN LEFT ONTO CAMINO RAMON THEN TURN LEFT ONTO CROW CANYON ROAD. MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO. MERGE ONTO I-680 N AND KEEP LEFT AT THE FORK TO CONTINUE ON I-680. TAKE EXIT 71A TOWARD I-80 EAST / SACRAMENTO. MERGE ONTO I-80 E. USE THE RIGHT 2 LANES TO TAKE THE I-80 EXIT TOWARD RENO. CONTINUE ONTO I-80 EAST, AND TAKE EXIT 106 FOR CA-65 TOWARD LINCOLN/MARYSVILLE. CONTINUE ONTO CA-65 N. TURN RIGHT ONTO NELSON LANE. CONTINUE ONTO AVIATION BOULEVARD. TURN RIGHT ONTO BUSINESS PARK DRIVE. TURN LEFT. TURN LEFT.

PROJECT TEAM	
PUBLIC SAFETY TOWERS, LLC CONTACT:	1903 WRIGHT PLACE, SUITE 140 CARLSBAD, CA 92008 STEPHANIE VANDERVEEN S.VANDERVEEN@PSTCTOWERS.COM (619) 417-9925
TEP PROJECT TEAM:	TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040
SITE ACQUISITION CONTACT:	CAROL KINCHELOE CKINCHELOE@TEPGROUP.NET (619) 488-0933
CIVIL ENGINEER:	ANDREW T. HALDANE, PE AHALDANE@TEPGROUP.NET (919) 661-6351
ELECTRICAL ENGINEER:	MARK QUAKENBUSH, PE MQUAKENBUSH@TEPGROUP.NET (919) 661-6351
AT&T PROJECT TEAM:	
RF ENGINEER:	SHARATH MAHESWARAIAHA SM234J@US.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.	
TOWER SCOPE OF WORK	
<ul style="list-style-type: none"> INSTALL (1) 85'-0" MONOPOLE TOWER INSTALL (15) ANTENNAS INSTALL (15) RADIOS INSTALL (4) DC9 FIBER SQUIDS INSTALL (12) DC POWER TRUNKS INSTALL (4) FIBER TRUNKS INSTALL (3) SECTOR MOUNTS 	
GROUND SCOPE OF WORK	
<ul style="list-style-type: none"> INSTALL 23'-0"x98'-0" CHAIN LINK FENCED COMPOUND INSTALL (1) 200A METER AND (1) 600A GUTTER INSTALL (1) PTLC WITH BUILT-IN ATS INSTALL (1) 17'-7"x10'-4" CONCRETE PAD INSTALL (1) EQUIPMENT PLATFORM INSTALL (1) WALK-UP-CABINET (WUC) INSTALL (1) 30KW DIESEL GENERATOR INSTALL (1) ICE BRIDGE INSTALL (1) RAYCAP DC50 SURGE SUPPRESSOR INSTALL (8) BATTERIES 	

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:	2.00
DATED:	10/21/2022
CALL CALIFORNIA ONE CALL (800) 227-2600 CALL 3 WORKING DAYS BEFORE YOU DIG!	



SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1
REVISION: I

TEP #: 314365.336181

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: CVL06561

**PSTC #: CANC-LINC01
LINCOLN AIRPORT**

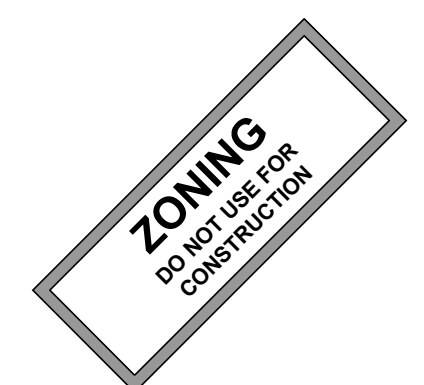
**600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)**

**PROPOSED 85'-0" MONOPOLE
TOWER**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
E	02-01-23	SSO	ZONING	HMM
F	03-20-23	RCH	ZONING	HMM
G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PSS	ZONING	HMM
I	10-10-23	PSS	ZONING	HMM

SEAL:



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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-1

REVISION:

I

TEP #:

314365.336181

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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SHEET TITLE:

SITE PLAN

SHEET NUMBER:

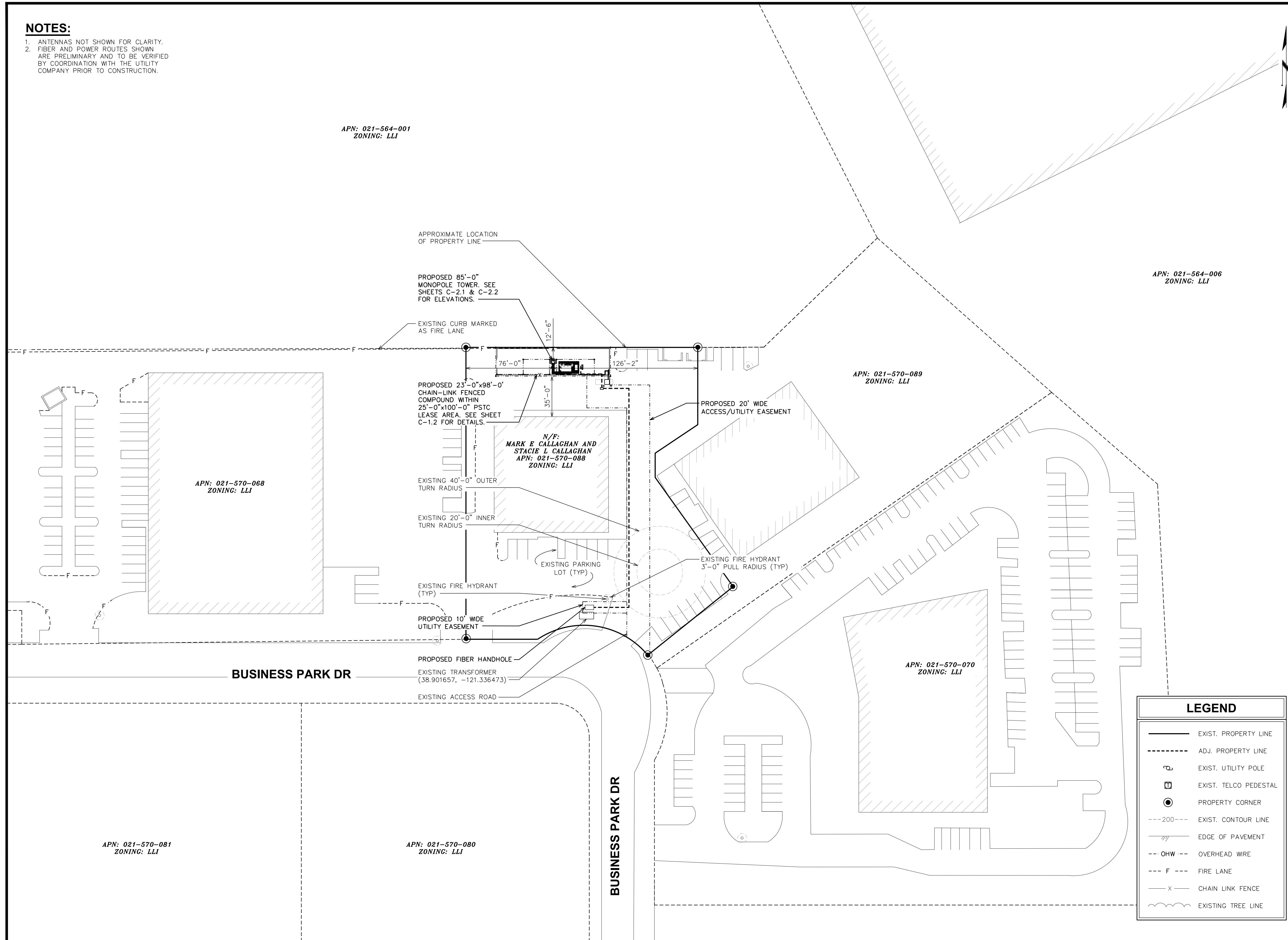
C-1.1

REVISION:

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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
- - - F - - - FIRE LANE
- x - CHAIN LINK FENCE
- ~ ~ ~ EXISTING TREE LINE

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. CANOPY NOT SHOWN FOR CLARITY.



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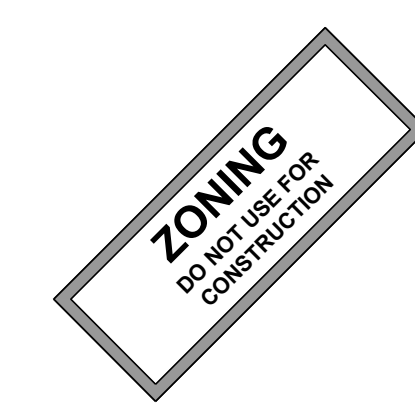
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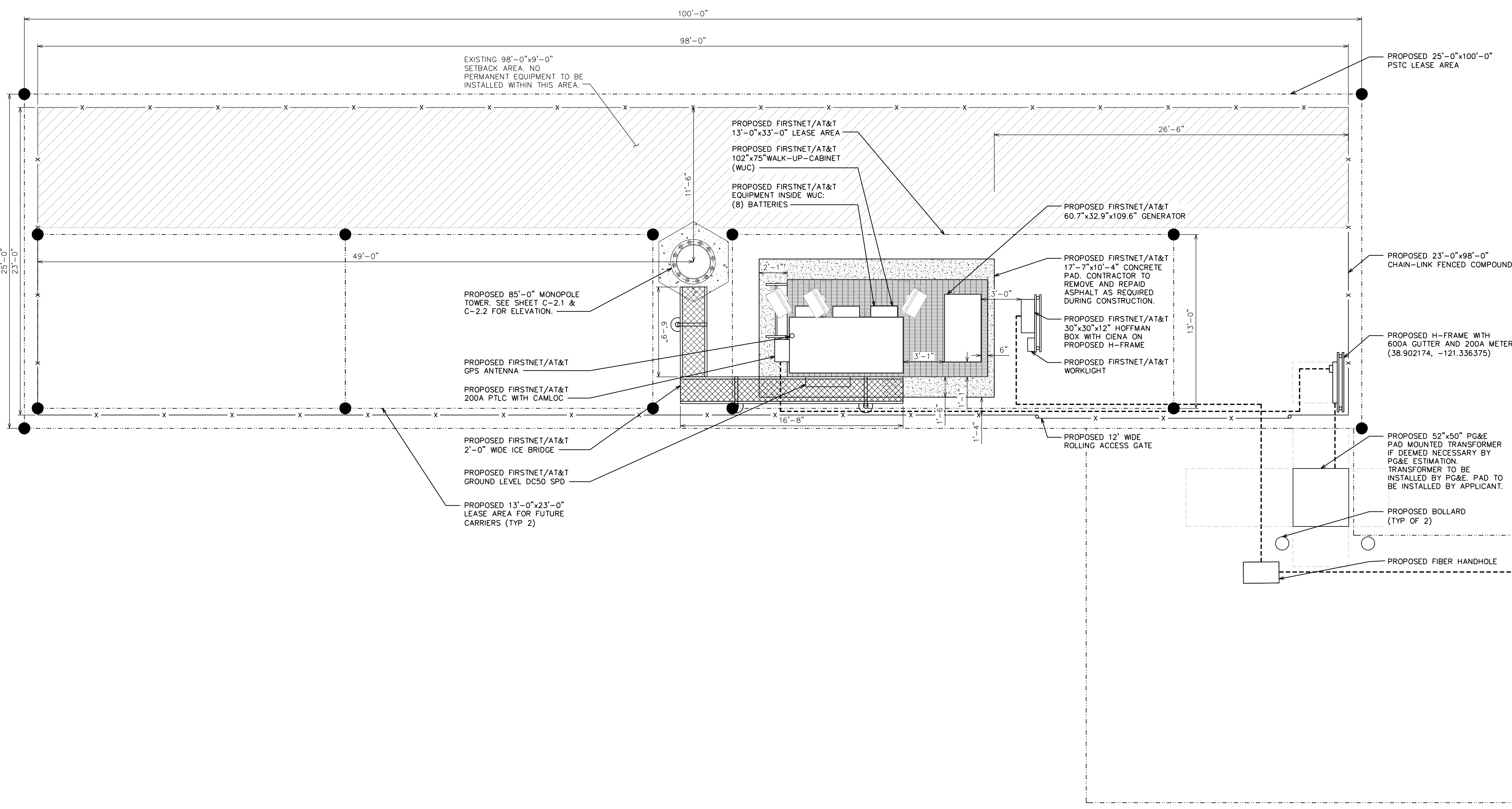
SHEET TITLE:

COMPOUND LAYOUT

SHEET NUMBER: **C-1.2**


REVISION: **I**

TEP #: 314365.336181



1 FINAL COMPOUND DETAIL

SCALE: 1/4" = 1'-0" (24x36)
SCALE: 1/8" = 1'-0" (11x17)



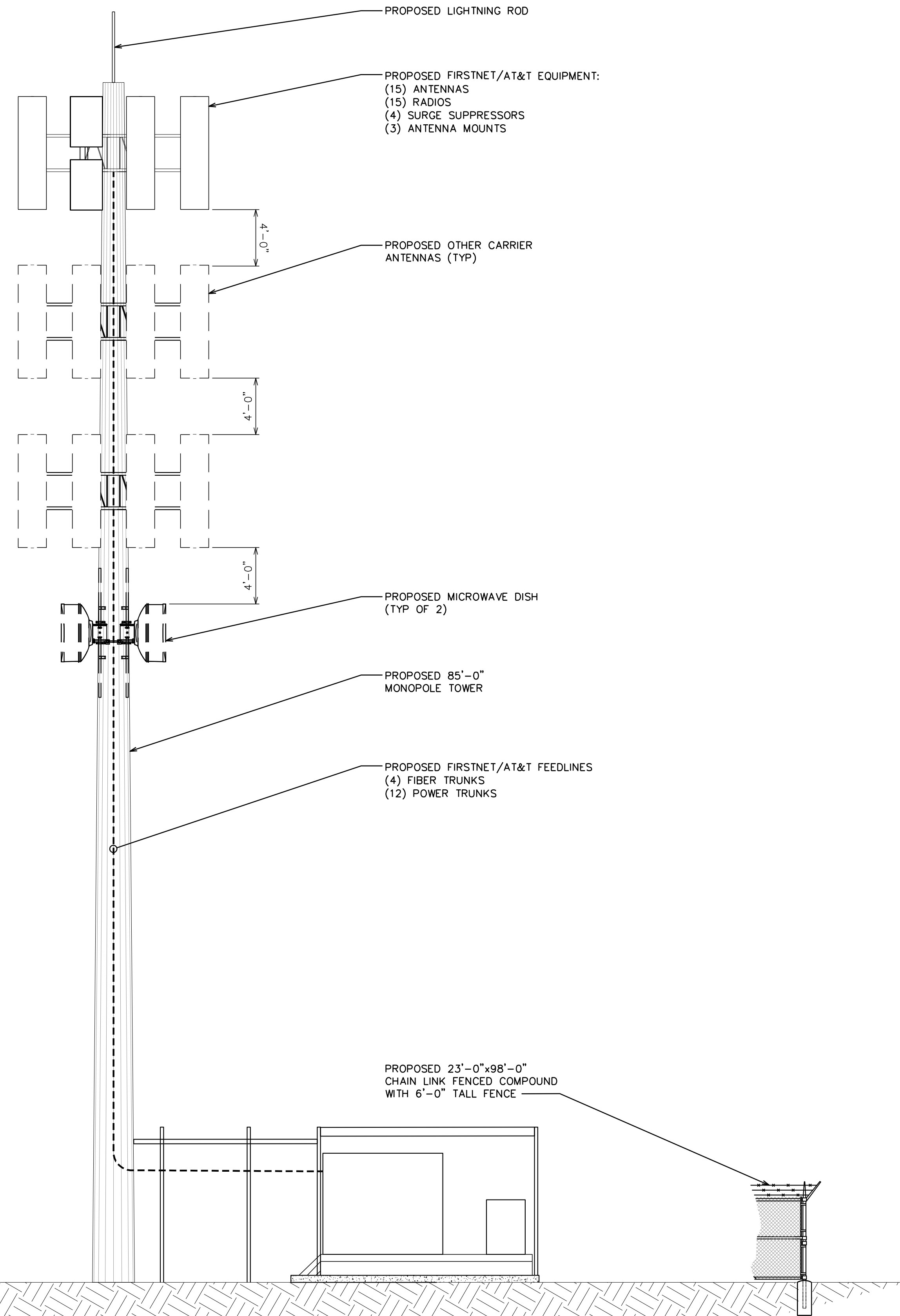
SCALE IN FEET

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.

- 90'-0"±
T/APPURTENANCE
- 85'-0"±
T/TOWER
- 82'-6"±
T/FIRSTNET/AT&T ANTENNA
- 80'-0"±
T/FIRSTNET/AT&T ANTENNA
- 77'-6"±
T/FIRSTNET/AT&T ANTENNA
- 68'-0"±
T/FUTURE CARRIER
- 56'-0"±
T/FUTURE CARRIER
- 46'-0"±
T/MICROWAVE

0'-0" (REF)
T/CONCRETE



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SHEET TITLE:
FINAL ELEVATION

SHEET NUMBER:
C-2.1

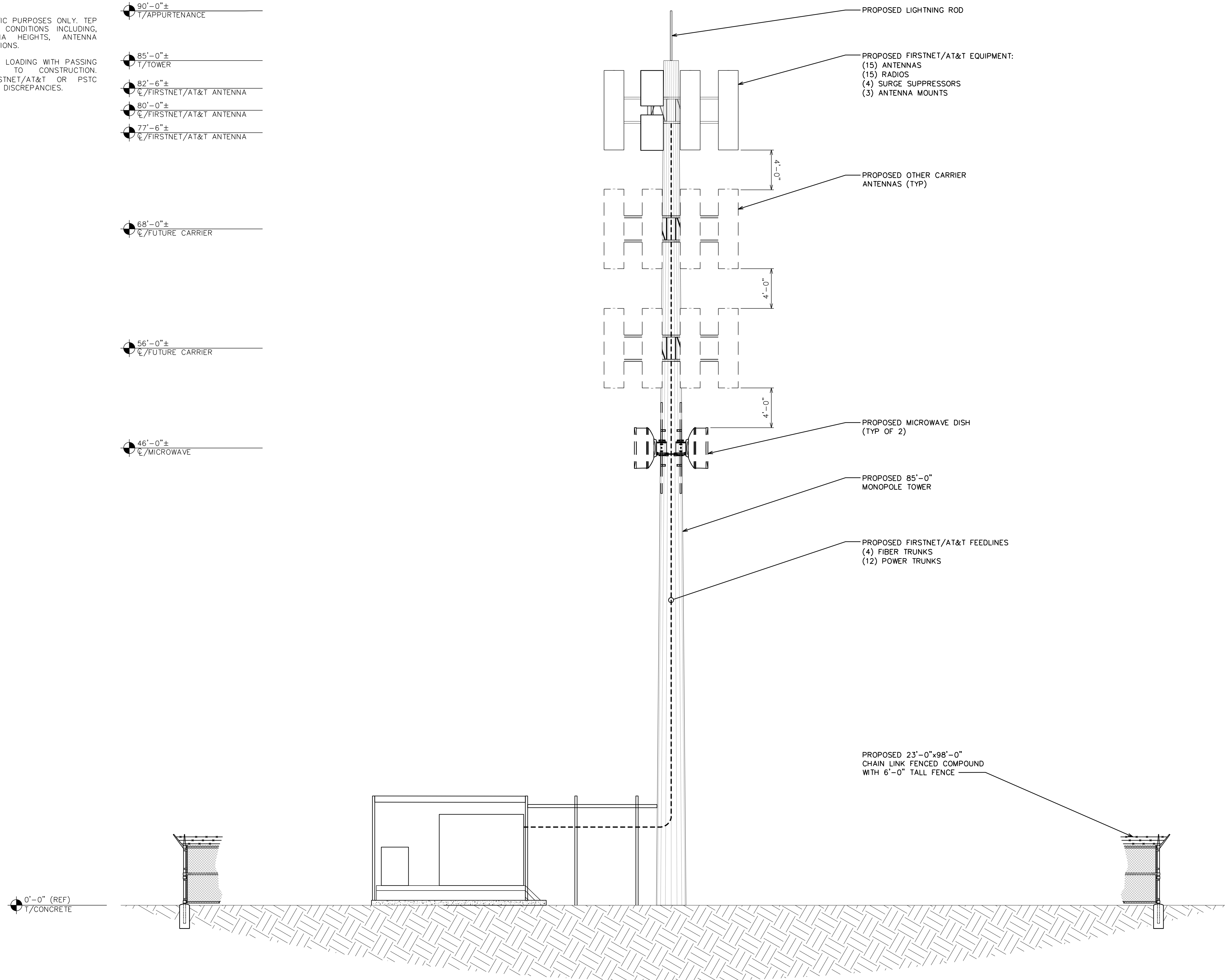
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T/FUTURE CARRIER
- 56'-0"±
T/FUTURE CARRIER
- 46'-0"±
T/MICROWAVE



1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

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: CVL06561

**PSTC #: CANC-LINC01
LINCOLN AIRPORT**

**600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)**

**PROPOSED 85'-0" MONOPOLE
TOWER**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
E	02-01-23	SSO	ZONING	HMM
F	03-20-23	RCH	ZONING	HMM
G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PSS	ZONING	HMM
I	10-10-23	PSS	ZONING	HMM

SEAL:

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SHEET TITLE:
FINAL ELEVATION

SHEET NUMBER:
C-2.2

REVISION:
I

TEP #: 314365.336181

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.

90'-0"±
T/APPURTENANCE

85'-0"±
T/TOWER

82'-6"±
T/FIRSTNET/AT&T ANTENNA

80'-0"±
T/FIRSTNET/AT&T ANTENNA

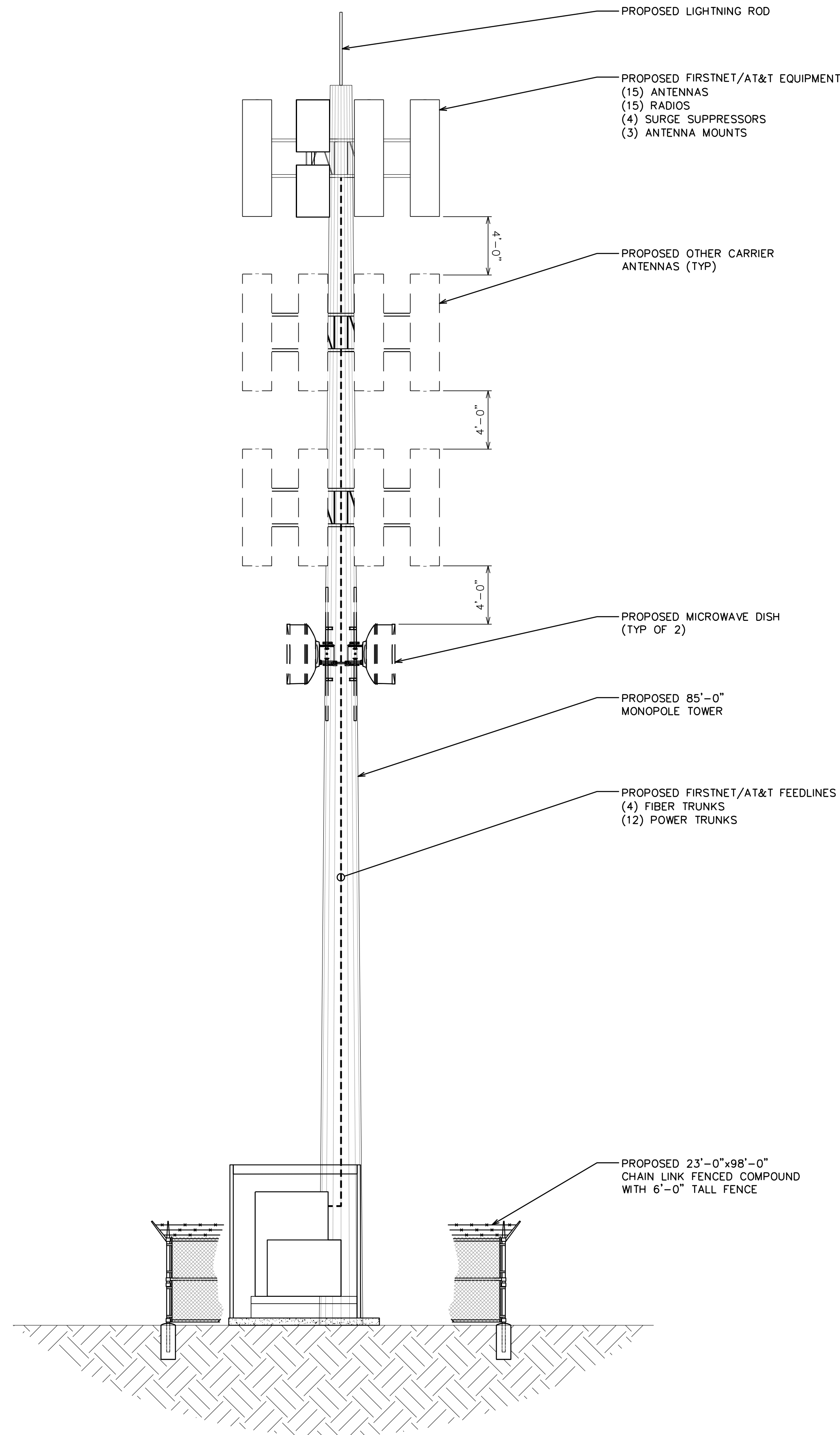
77'-6"±
T/FIRSTNET/AT&T ANTENNA

68'-0"±
T/FUTURE CARRIER

56'-0"±
T/FUTURE CARRIER

46'-0"±
T/MICROWAVE

0'-0" (REF)
T/CONCRETE



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CARLSBAD, CA 92008

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ISSUED FOR:

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G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PSS	ZONING	HMM
I	10-10-23	PSS	ZONING	HMM

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SHEET TITLE:
FINAL ELEVATION

SHEET NUMBER:
C-2.3

REVISION:
I

TEP #: 314365.336181

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.

90'-0"±
T/APPURTENANCE

85'-0"±
T/TOWER

82'-6"±
T/FIRSTNET/AT&T ANTENNA

80'-0"±
T/FIRSTNET/AT&T ANTENNA

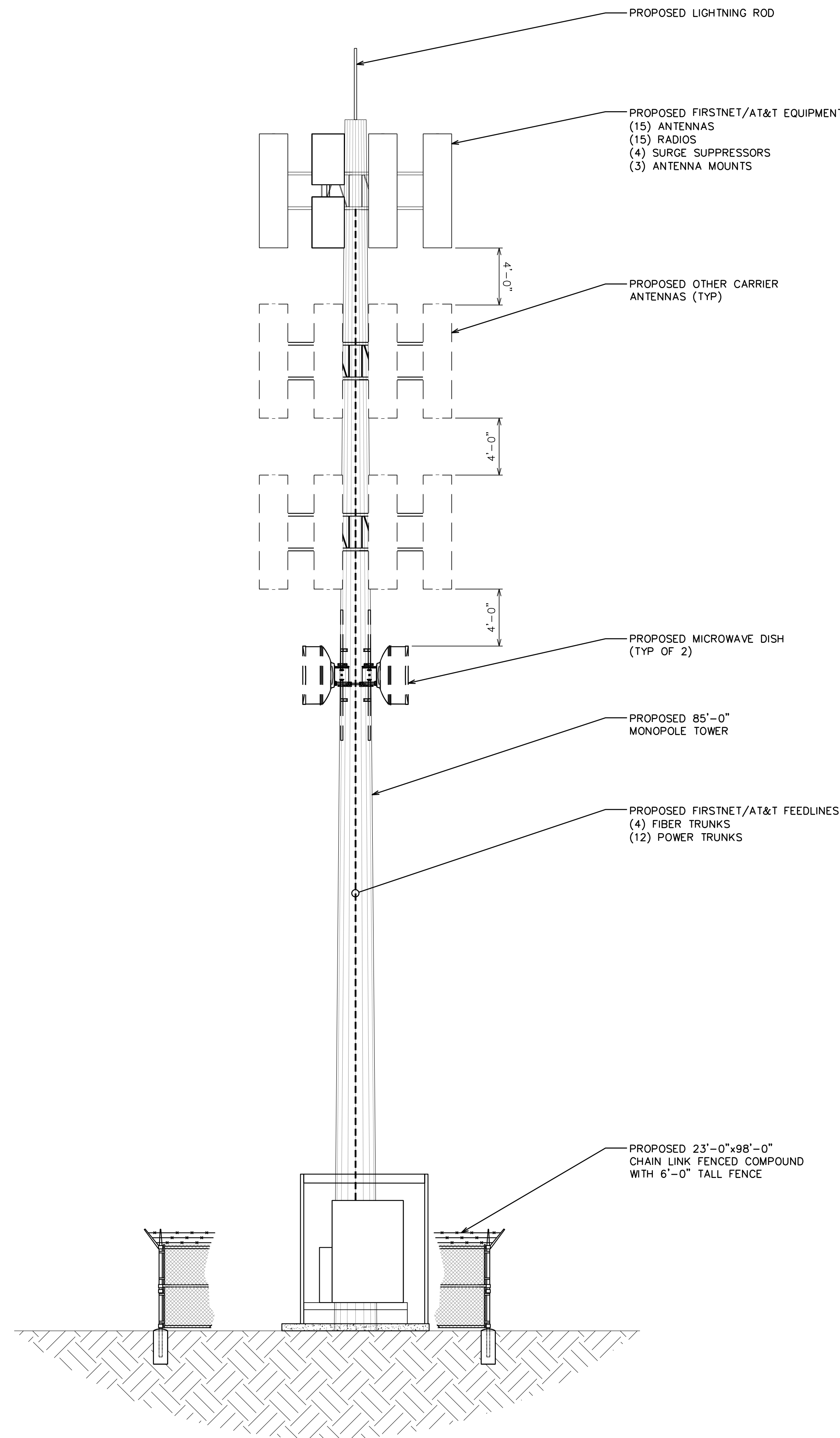
77'-6"±
T/FIRSTNET/AT&T ANTENNA

68'-0"±
T/FUTURE CARRIER

56'-0"±
T/FUTURE CARRIER

46'-0"±
T/MICROWAVE

0'-0" (REF)
T/CONCRETE



PUBLIC SAFETY TOWERS
COMPANY

1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

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

FIRSTNET/AT&T ID: CVL06561

**PSTC #: CANC-LINC01
LINCOLN AIRPORT**

**600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)**

**PROPOSED 85'-0" MONOPOLE
TOWER**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
E	02-01-23	SSO	ZONING	HMM
F	03-20-23	RCH	ZONING	HMM
G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PSS	ZONING	HMM
I	10-10-23	PSS	ZONING	HMM

SEAL:

ZONING
DO NOT USE FOR
CONSTRUCTION

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UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET TITLE:
FINAL ELEVATION

SHEET NUMBER:
C-2.4

REVISION:
I

TEP #: 314365.336181

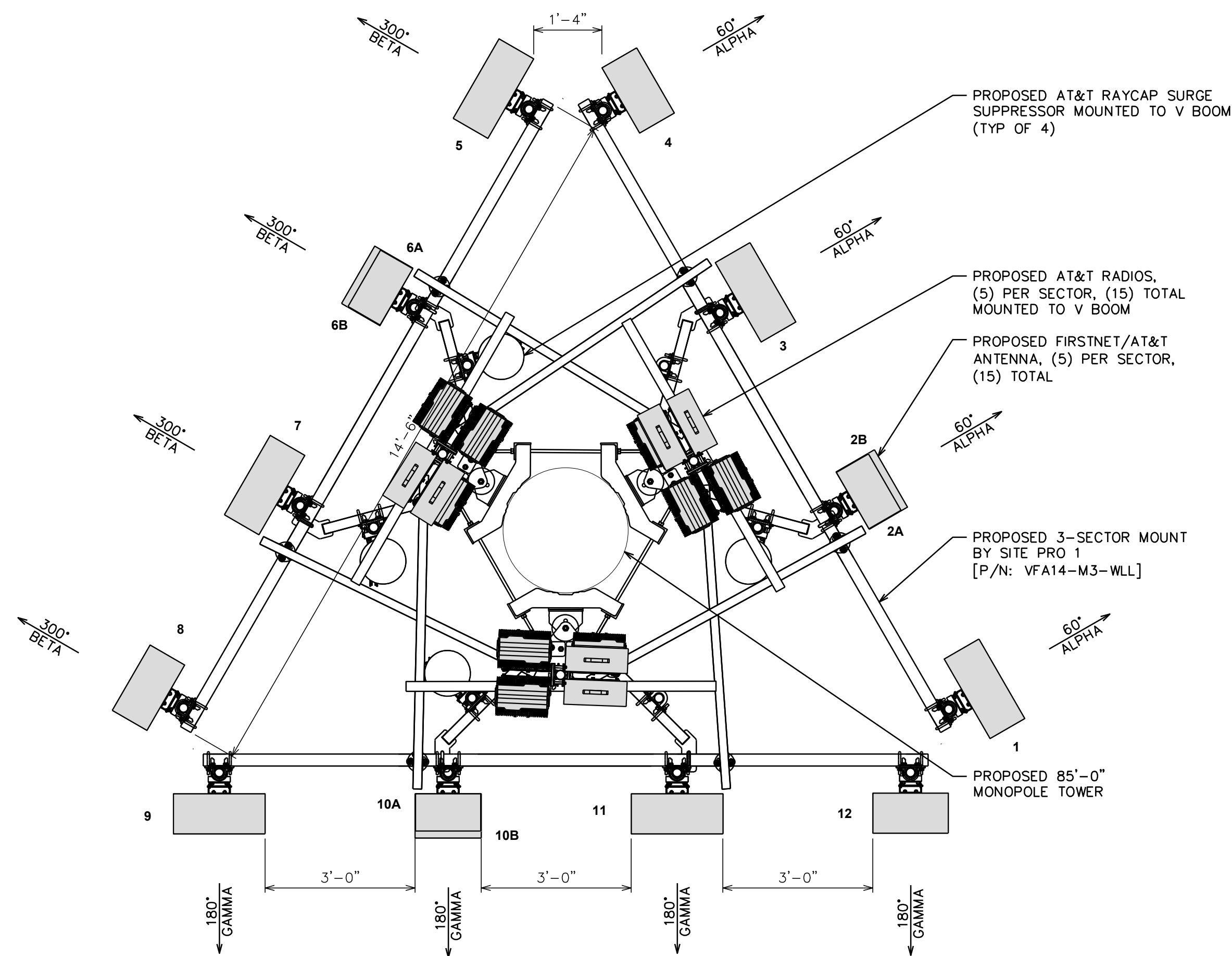
1 PROPOSED WEST ELEVATION

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

SCALE IN FEET

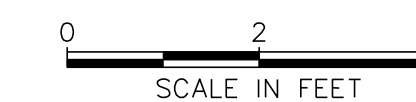
NOTE:

TEP DID NOT ANALYZE THE PROPOSED MOUNT SHOWN.



1 FINAL ANTENNA LAYOUT

SCALE: 1/2" = 1'-0" (24x36)



SCALE: 1/4" = 1'-0" (11x17)

FINAL ANTENNA/FEEDLINE SCHEDULE

SECTOR	POS.	MANUFACTURER (MODEL #)	MOUNTING HEIGHT	AZIMUTH (TN)	CABLE SIZE	CABLE LENGTH	OVP/RRH/TMA/DIPLEXER [MODEL #]
ALPHA	1	COMMSCOPE (NNH4-65C-R8D)	⌀ @ 80'-0"±	60°	(12) DC POWER TRUNKS (4) FIBER TRUNKS	180'±	(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 4415 B25 (1) RADIO 4415 B30 (2) DC9-48-60-24-8C-EV
ALPHA	2A	ERICSSON (AIR6449 B77D)	⌀ @ 77'-6"±	60°			
ALPHA	2B	ERICSSON (AIR6419 B77G)	⌀ @ 82'-6"±	60°			
ALPHA	3	COMMSCOPE (NNH4-65C-R6H4)	⌀ @ 80'-0"±	60°			
ALPHA	4	COMMSCOPE (NNHH-65C-R4)	⌀ @ 80'-0"±	60°			(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 4415 B25 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV
BETA	5	COMMSCOPE (NNH4-65C-R8D)	⌀ @ 80'-0"±	300°			
BETA	6A	ERICSSON (AIR6449 B77D)	⌀ @ 77'-6"±	300°			
BETA	6B	ERICSSON (AIR6419 B77G)	⌀ @ 82'-6"±	300°			
BETA	7	COMMSCOPE (NNH4-65C-R6H4)	⌀ @ 80'-0"±	300°			(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 4415 B25 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV
BETA	8	COMMSCOPE (NNHH-65C-R4)	⌀ @ 80'-0"±	300°			
GAMMA	9	COMMSCOPE (NNH4-65C-R8D)	⌀ @ 80'-0"±	180°			
GAMMA	10A	ERICSSON (AIR6449 B77D)	⌀ @ 77'-6"±	180°			
GAMMA	10B	ERICSSON (AIR6419 B77G)	⌀ @ 82'-6"±	180°			
GAMMA	11	COMMSCOPE (NNH4-65C-R6H4)	⌀ @ 80'-0"±	180°			
GAMMA	12	COMMSCOPE (NNHH-65C-R4)	⌀ @ 80'-0"±	180°			

2 FINAL ANTENNA SCHEDULE

SCALE: N.T.S.

PUBLIC SAFETY TOWERS COMPANY
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LINCOLN AIRPORT

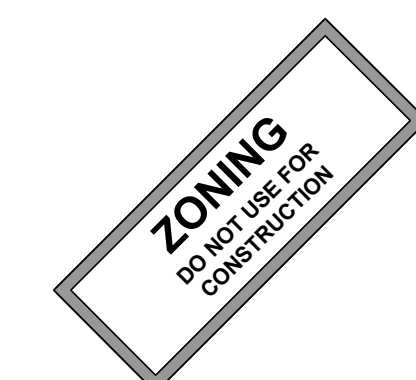
600 BUSINESS PARK DR
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PROPOSED 85'-0" MONOPOLE TOWER

ISSUED FOR:

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SEAL:



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SHEET TITLE:
ANTENNA LAYOUT & SCHEDULE

SHEET NUMBER: C-3
REVISION: I

TEP #: 314365.336181



2.2 System Configuration

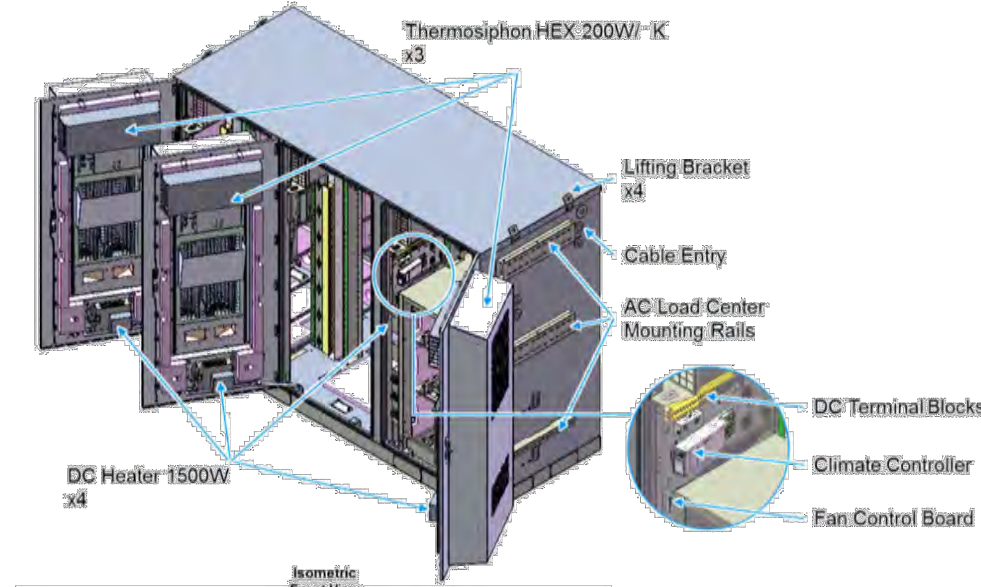
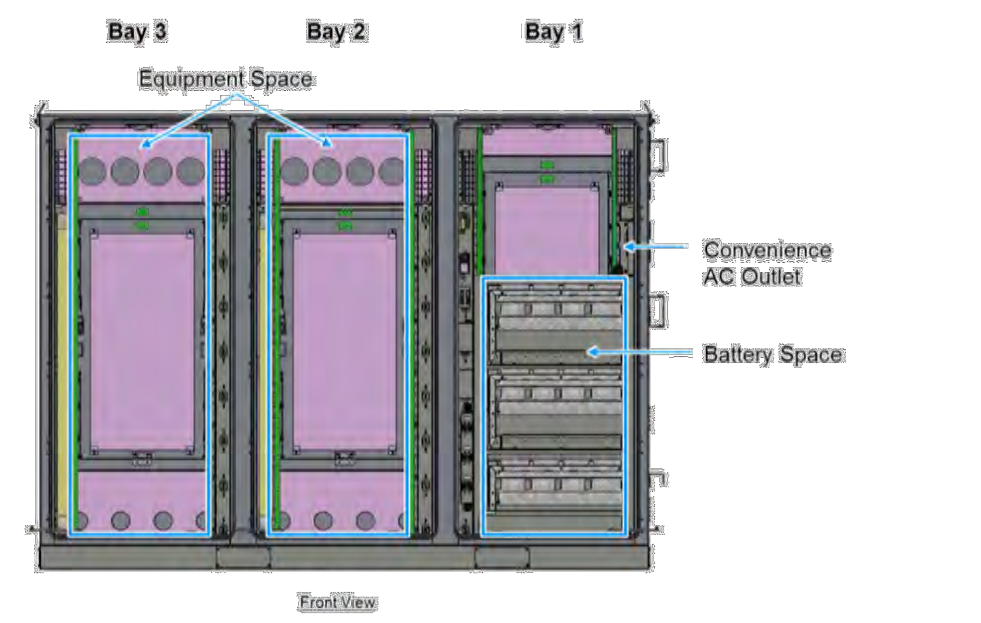


Figure 2-2 Multi-Bay Cabinet (Front View)

Installation and Operation Manual

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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
AC Input Range	
AC Input Voltage	1W+N+FG 100-120V _{AC}
AC Input Current (maximum)	12A (Max.)
AC Input Frequency	50/60Hz
DC Input Range	
DC Input Voltage	40 - 60V _{DC} (54V typical)
DC Input Current Rating	224A (max)
Battery Section	
Battery Trays	(3) Trays arranged for -48V battery strings, designed for: GNB Marathon M12V180FT Energys SBS190F Energys 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)

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Installation and Operation Manual



2.4 Dimensions and Weight

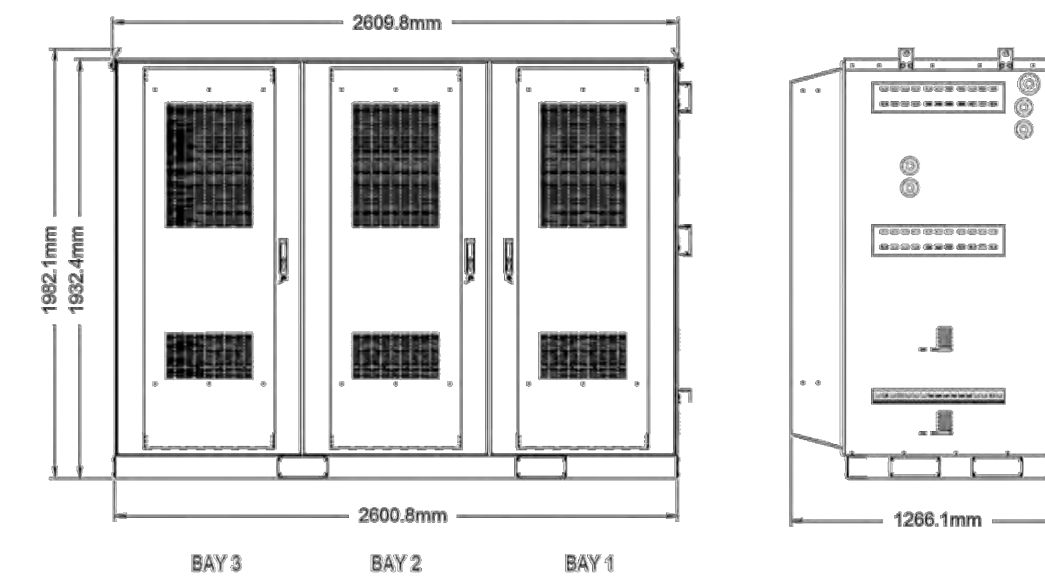


Figure 2-3 Cabinet Dimensions

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)

Installation and Operation Manual

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3.6 Cabinet Installation

Use the following steps to install the cabinet.

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

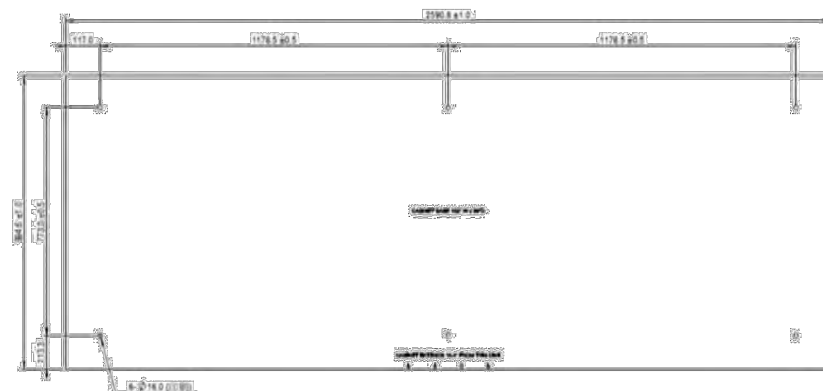


Figure 3-11 Mounting Template

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

Step 3 Install anchors per instructions from the anchor manufacturer.

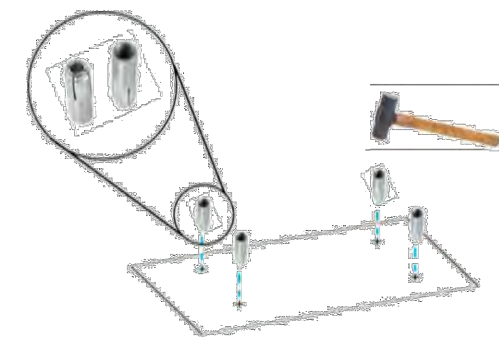


Figure 3-12 Insert anchors

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.

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Installation and Operation Manual



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.

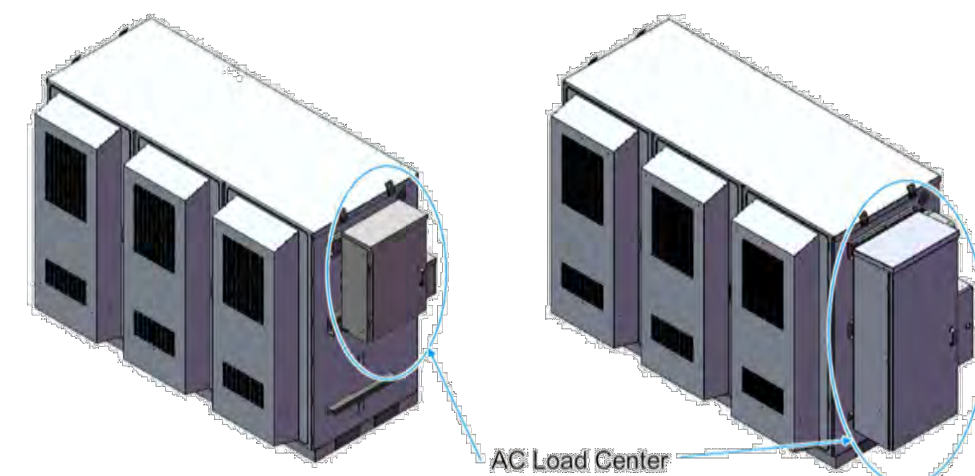


Figure 3-16 Cabinet with AC Load Center

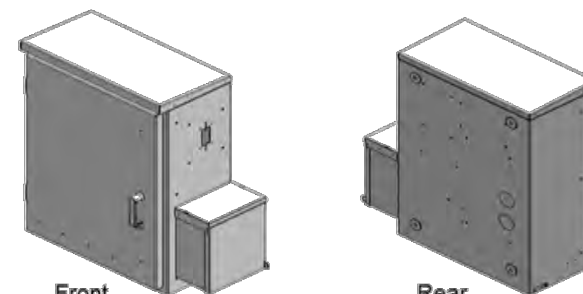


Figure 3-17 AC Load Center - MTS

Installation and Operation Manual

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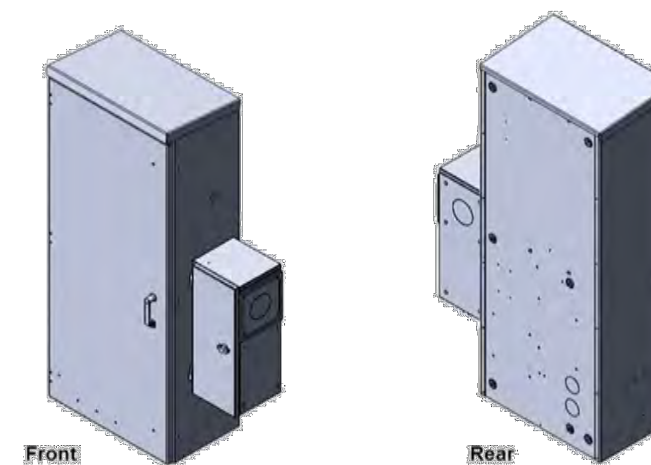


Figure 3-18 AC Load Center - ATS

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

30

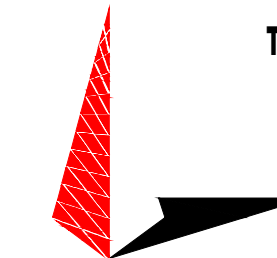
Installation and Operation Manual



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SEAL:



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TO ALTER THIS DOCUMENT.

SHEET TITLE:

WALK-UP-CABINET
DETAILS

SHEET NUMBER:

C-4

REVISION:

I

TEP #:

314365.336181

1

3-BAY WALK-UP-CABINET (WUC) DETAIL

SCALE: N.T.S.

NOTES:

- DETAILS SHOWN WERE PROVIDED BY OTHERS AND ARE NOT CARRIED UNDER SIGNATURE AND SEAL OF TOWER ENGINEERING PROFESSIONALS ENGINEERING SERVICES AND/OR ITS ENGINEERS
- REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR FURTHER DETAILS ON INSTALLATION OF EXTENSION KIT.
- INSTALL EXHAUST VENT EXTENSION AS REQUIRED TO PROVIDE 12' CLEARANCE FROM GROUND LEVEL IN ACCORDANCE WITH WASHINGTON STATE CODE.

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



Standby Power Rating
30 kW, 38 kVA, 60 Hz



Image used for illustrative 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.

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Stainless Steel Flexible Exhaust Connection
- Engine Coolant Heater with Isolation Ball Valve
- Factory Filled Oil and Coolant

FUEL SYSTEM

- Fuel Lockoff Solenoid
- Primary Fuel Filter

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 30/50 Ethylene Glycol Antifreeze
- Fan Guard

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- SA Battery Charger

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet 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
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- Silencer Mounted in the Discharge Hood

ENCLOSURE

- Aluminum Enclosure
- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material
- Gasketed Doors
- Twist-Lock Handle
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Up to 70 Inch Snow Load Rating
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- 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



Power Zone® 410 Controller

- Emergency Stop
- Modbus® RTU
- Remote Ports
- Full Range Standby Operation
- 3-Phase AC Volts
- 3-Phase Amps
- kW
- Power Factor
- Ruptured Tank Detection
- Auxiliary Shutdown Switch
- Remote Communications
- Compatible with NFA 110, Level 1 or 2 (When Optional Modules Selected)
- Line Power/Gen Power
- IFT Function for Full Generator Protection (Contact Factory)

Features

- Programmable Auto Crank
- Selectable Low Speed Exercise
- RS-232 x2
- RS-485 x2
- All-Phase Sensing Digital Voltage Regulator
- kV
- Date
- On/Off/Manual Switch
- Not in Auto (Flashing Light)

Alarms and Warnings

- Fault History (Alarm Log)
- Oil Pressure
- Oil Temperature Indication and Alarm
- Output for Fuel Level High/Low Warning
- Water Temperature
- Water Level
- Fuel Pressure/Level
- Engine Speed
- Battery Voltage
- Alternator Frequency
- Common Alarm Output

Full System Status Display

- Multilingual 128x64 Graphical Display with Heater
- Easy Status View LED Screen
- Full System Status
- Rain Hours
- Service Reminders

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- Two-Stage Air Cleaner
- Level 1 Belt Guard

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Air-Condensation Heater
- Tropical Coating

GENERATOR SET

- Extended Factory Testing
- Pad Vibration Isolators

ENCLOSURE

- AG/DC Enclosure Light
- Door Open Alarm Horn

WARRANTY (Standby Gensets Only)

- 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)
- Battery Disconnect Switch
- 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
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- Overflow Protection Valve
- Spill Box Return Hose
- 2.5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12" Vent System
- Fire Rated Stainless Steel Fuel Hose
- Fuel Drop Hose

ENGINEERED OPTIONS

GENERATOR SET

- Special Testing

FUEL TANKS

- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Fluid Containment Pan

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Cooling System	
Make	Perkins	Cooling System Type	Pressurized Closed
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	Pre-Lubed, Self Sealing
EPA Emissions Reference	See Emission Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed - RPM	3,000
Type	In-Line	Fan Diameter - in (mm)	11 (279)
Displacement - in³ (L)	135 (2.22)	Fuel System	
Bore - in (mm)	3.3 (84)	Fuel Type	Ultra Low Sulfur Diesel Fuel
Stroke - in (mm)	3.9 (100)	Fuel Specifications	ASTM
Compression Ratio	23.3:1	Fuel Filtering (Microns)	5
Intake Air Method	Turbocharged	Fuel Inlet Pump	Distribution Injection Pump
Cylinder Head	Cast Iron	Fuel Pump Type	Cassette
Piston Type	Aluminum	Injector Type	Indirect, Pintle Nozzle
Crankshaft Type	Forged Steel	Fuel Supply Line - in (mm)	0.31 (7.94) ID
Fuel Return Line - in (mm)	0.31 (7.94) ID	Engine Electrical System	
Engine Governing		System Voltage	12 VDC
Governor	Electronic Isochronous	Battery Charger Alternator	Standard
Frequency Regulation (Steady State)	±0.5%	Battery Size	See Battery Index 016197058Y
Lubrication System		Battery Voltage	12 VDC
Oil Pump Type	Gear	Ground Polarity	Negative
Oil Filter Type	Full-Flow Cartridge		
Crankcase Capacity - qt (L)	11.2 (10.8)		

ALTERNATOR SPECIFICATIONS

Standard Model	K0050124Y26	Standard Excitation	Permanent Magnet Excitation
Poles	4	Bearings	Single Sealed
Field Type	Revolving	Coupling	Direct via Flexible Disc
Insulation Class - Rotor	H	Load Capacity - Standby	100%
Insulation Class - Stator	H	Prototype Short Circuit Test	Yes
Total Harmonic Distortion	<5% (3-Phase Only)	Voltage Regulator Type	Digital
Telephone Interference Factor (TIF)	<50	Number of Sensed Phases	All
		Regulation Accuracy (Steady State)	±0.25%

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

		Standby	
Single-Phase 120/240 VAC @ 0.8pf	30 kW, 30 kVA	Amps:	125
Three-Phase 120/208 VAC @ 0.8pf	30 kW, 38 kVA	Amps:	104
Three-Phase 120/240 VAC @ 0.8pf	30 kW, 38 kVA	Amps:	90
Three-Phase 277/480 VAC @ 0.8pf	30 kW, 38 kVA	Amps:	45
Three-Phase 346/600 VAC @ 0.8pf	30 kW, 38 kVA	Amps:	36

MOTOR STARTING CAPABILITIES (skVA)

		skVA vs. Voltage Dip	
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%
A0050044N26	Contact Factory	K0050124Y26	Contact Factory
208/240 VAC 3Ø	30%	600 VAC 3Ø	30%
L0050124N24	Contact Factory	L0050124N24	Contact Factory

FUEL CONSUMPTION RATES*

		Diesel - gph (Lph)	
Fuel Pump Lift - ft (m)	2.6 (0.8)	Percent Load	Standby
		25%	1.0 (3.8)
		50%	1.3 (5.0)
		75%	1.9 (7.2)
		100%	2.7 (10.2)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)		16.6 (63.0)	

COOLING

		Standby	
Air Flow (Fan Air Flow Across Radiator) - Compact	cfm (m³/min)	2,500	(70.8)
Coolant Flow	gpm (Lpm)	14.8	(56.2)
Coolant System Capacity	gal (L)	5.11	(19.36)
Heat Rejection to Coolant	BTU/hr (kW)	128,838	(37.7)
Maximum Operating Ambient Temperature	°F (°C)	122	(50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199280SSD	

COMBUSTION AIR REQUIREMENTS

		Standby	
Flow at Rated Power - cfm (m³/min)		88	(2.5)

ENGINE

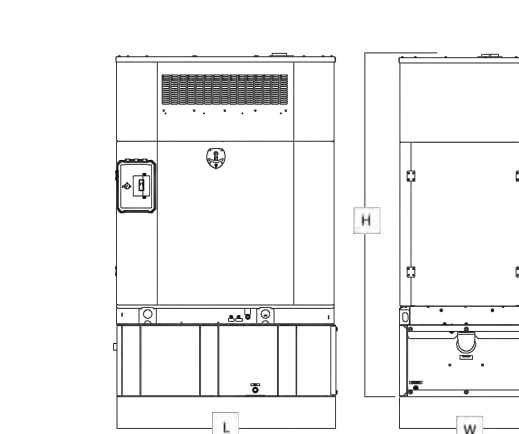
		EXHAUST	
Rated Engine Speed	RPM	1,800	Standby
Maximum Allowable Background Pressure (Post Silencer)	inHg (kPa)	48.8	168 (4.8)
Piston Speed	ft/min (m/min)	1,182 (360)	892 (478)
BMEP	psi (kPa)	158.8 (1,095)	

* Refer to "Emissions Data Sheet" for maximum BHP for EPA and SCAQM0 permitting purposes.
Derate - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Standby - See Bulletin 0187500SS8
Prime - See Bulletin 0167510SS8

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



DIMENSIONS AND WEIGHTS*



COMPACT VARIANT

		Rtn Usable		L x W x H - in (mm)		Weight - lbs (kg)	
Time - Hours	Capacity - Gal (L)	60.7 (1,542)	36.1 (917)	72.6 (1,844)	Contact Factory		
No Tank		60.7 (1,542)	32.9 (836)	90.9 (2,309)	Contact Factory		
18	50 (189)	60.7 (1,542)	32.9 (836)	90.9 (2,309)	Contact Factory		
53	145 (549)	60.7 (1,542)	32.9 (836)	109.6 (2,764)	Contact Factory		

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



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www.tepgroup.net

FIRSTNET/AT&T ID: CVL06561

PTSC #: CANC-LINC01
LINCOLN AIRPORT

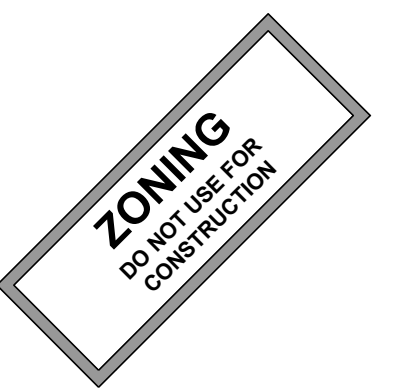
600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)

PROPOSED 85'-0" MONOPOLE
TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
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G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PS5	ZONING	HMM
I	10-10-23	PS5	ZONING	HMM

SEAL:



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SHEET TITLE:

GENERATOR DETAILS

SHEET NUMBER:

C-5

REVISION:

I

TEP #: 314365.336181

1 PROPOSED GENERATOR DETAILS

SCALE: N.T.S.

* All measurements are approximate and for estimation 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 | Waubesa, WI 53189
P: (262) 544-4811 ©2022 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice. Part No. A0020078653 Rev. A 05/20/2022



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

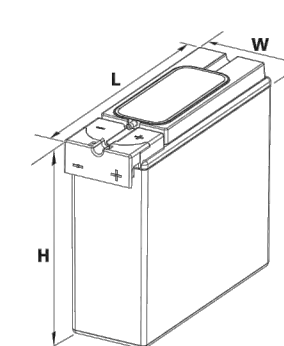
- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F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

Standards

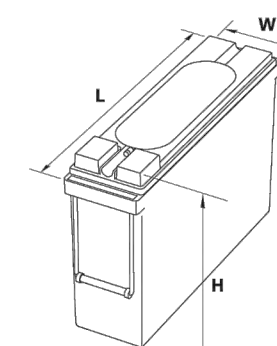
- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

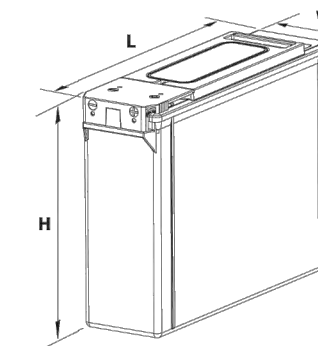
Cell Type	Nominal Capacity (Ah)		Nominal Dimensions				Weight - Volumes			
	10 hr rate to 1.80Vpc @20°C	8 hr rate to 1.75Vpc @77°F	in Length	mm	in Width	mm	in Height	mm	lbs Unpacked	kg
SBS B8F	31	31	11.9	303	3.8	97	6.3	159	22.7	10.3
SBS B10F	38	38	11.9	303	3.8	97	7.2	184	28.2	12.8
SBS B14F	62	62	11.9	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	6.8	173	9.4	238	105.0	47.7
SBS 165F	165	165	17.9	455	6.8	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



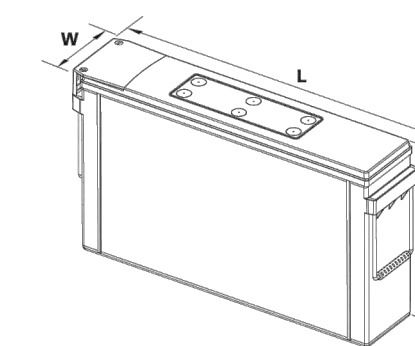
SBS B8F-B14F



SBS C11F



SBS 100F-112F



SBS 145F - 190F

MANUFACTURER:	ALPINE POWER SYSTEMS
MODEL:	POWERSAFE SBS 190F
BATTERY UNIT 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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I	10-10-23	PSS	ZONING	HMM

SEAL:



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SHEET TITLE:
BATTERY DETAILS

SHEET NUMBER: **C-6** REVISION: **I**

TEP #: 314365.336181

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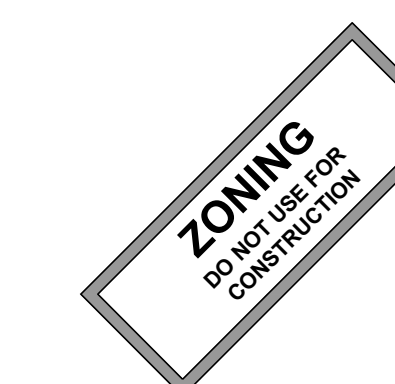
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SHEET TITLE:

H-FRAME DETAIL

SHEET NUMBER:

C-7

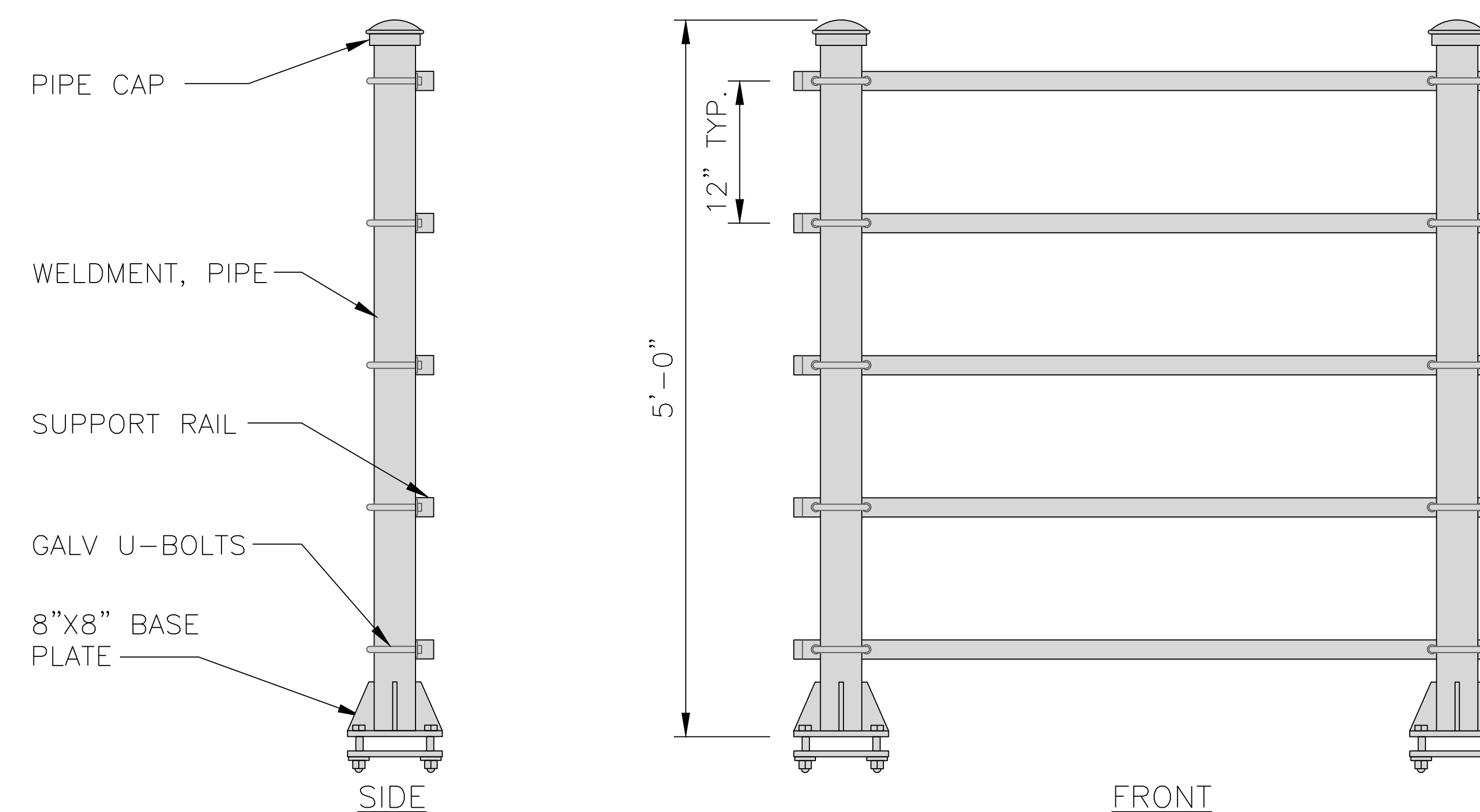
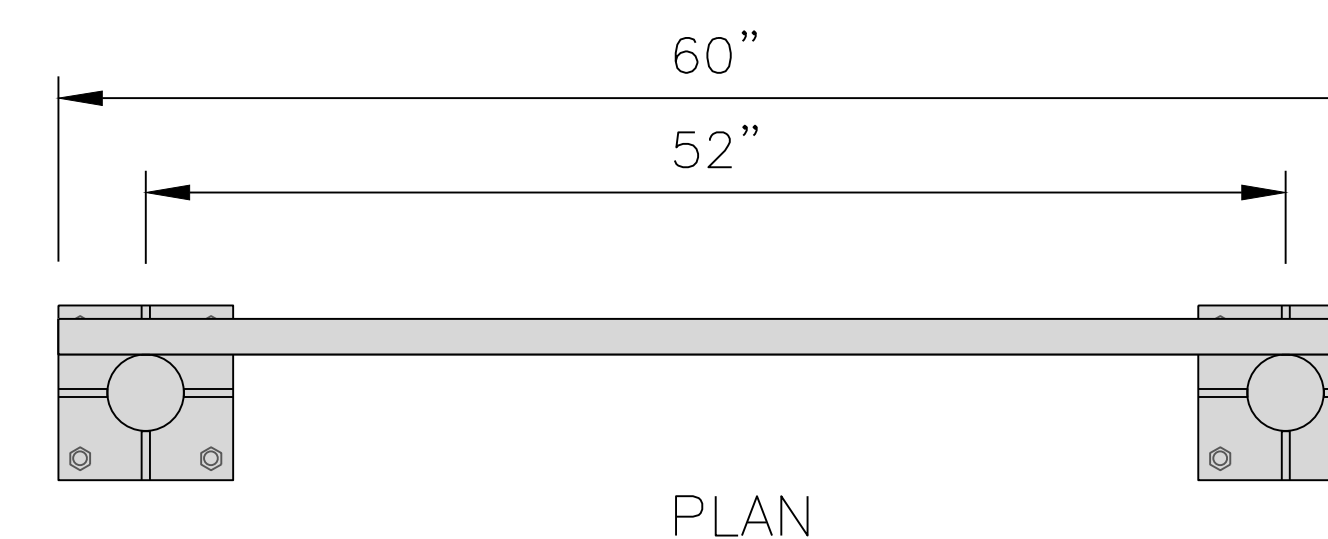
REVISION:

I

TEP #:

314365.336181

KENWOOD T1701KT5-5S H-FRAME	
UNISTRUT/SUPPORT RAIL	5
WEIGHT/ VOLUME	173.6 LBS



AA-CL-T-3S PTLC Series

ATS Power Transfer Load Center with an Integrated Telco Cabinet

The AA-CL-T-3S is an outdoor PTLC that features separate AC and Telco chambers. The AC chamber includes a 42k AIC main disconnect breaker for normal (utility) power. When the normal power source is not available, an ASCO® Series 300 automatic transfer switch connects to a permanent or temporary alternative power source. Mechanically interlocked 10 kAIC main disconnect breakers allow manual transfer between the permanent and temporary sources.



The AA-CL-T-3S Series also features a Square D load center; Strikesorb® surge suppression; a utility voltage sensing relay; a Cam-Lok style engine generator connector panel, mounted on the left or right; and a ground fault circuit interrupter (GFCI) circuit breaker wired to a duplex outlet in the Telco chamber.

A double throw, single solenoid transfer mechanism and microprocessor controls in the ASCO Series 300 automatic transfer switch adjust to input from the primary power source or generator, depending on site conditions. The robust ASCO switch is UL 1008 Listed and complies with NFPA 110 for emergency and standby power systems.

To protect connected equipment, the AA-CL-3S PTLC safeguards critical loads from transients and load transfer spikes using Strikesorb® surge suppression. Strikesorb incorporates state of the art technological developments that provide superior protection characteristics, which remain unchanged throughout its long service life. It is designed to withstand repeated surges providing cost-effective and maintenance-free operation in demanding environments. Critical loads are never left unprotected, as Strikesorb will operate to a short circuit and trip the main disconnect breaker in the event of a long duration, potentially catastrophic overvoltage event.

A 42-position Square D load center provides the flexibility to distribute 200 amp, 240/120 single-phase or 208/120 three-phase power to a variety of site equipment.

The Telco chamber has a plywood backboard with three knockouts for cable entry centered above the backboard. Included in the Telco chamber is a 20-amp duplex receptacle fed from a GFCI circuit breaker (located in the upper, AC chamber.)

For more information about the AA-CL-T-3S Series panels, or other PTLC models, e-mail Intersect today at solutions@intersectinc.com.

Intersect, Inc.

Quality products. Premium customer care. Integrated solutions.

Series Number	Product Configuration
AA1220042-3R-CL-T-L	240/120; 10; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam Lok-style engine generator connector
AA1220042-3R-CL-T-R	240/120; 10; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam Lok-style engine generator connector
AA3320042-3R-CL-T-L	208/120; 30; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam-Lok style engine generator connector
AA3320042-3R-CL-T-R	208/120; 30; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam-Lok style engine generator connector
Option Number	Description
Opt 11BG	Programmable Engine Exerciser – seven-day electronic time switch provides automatic weekly or bi-weekly testing of the engine generator set either with or without load and offers relay contacts for remote status monitoring.

Other service voltages and amperages are available. Custom panels can be designed to your performance specifications. Contact Intersect: solutions@intersectinc.com

General Data

Overall enclosure weight and dimensions

Varies by service voltage, amperage, and enclosure type. Request specific panel drawings for this product information.

AC cabinet dimensions (H x W x D)

53 x 29 x 12 inches

Telco cabinet dimensions (H x W x D)

20 x 29 x 12 inches

Enclosure type

- NEMA 3R
- 0.008 aluminum construction

Service voltage

- 200 amp
- 240/120
- 208/120

Voltage sensing relay

- Senses "utility" or normal source voltage
- Installed on "line" side of main disconnect breaker

UL certification

- UL 67 listed panel
- Service entrance rated

Cam-Lok Style Panel

Model

Micrin or Intersect ICL

Color coded Cam-Lok Connectors

- Green – Ground
- White – Neutral
- Black – Line 1
- Red – Line 2
- Blue – Line 3

UL Certification

UL 1008 listed

Load Center

Load center type

Square D

Circuit breaker positions

42 circuits

Circuit breaker type

Square D bolt-on or plug-in branch devices

Telco Cabinet

Duplex receptacle

- 15 amp GFCI circuit breaker
- 120 V

Terminal bar

- Insulated
- Ground connection

AC service connection

Two, 2-inch nonmetallic conduits

Manual Transfer Switch

Type

- Mechanically interlocked breakers for permanent or alternative power source
- Enables manual transfer between permanent and temporary power source (10 kA at 240 VAC)

Square D input breaker

- 200 amps

Source circuit breaker

Permanent & alternative emergency power

Withstand current rating (WCR)

10,000 amps

Automatic Transfer Switch

Type

ASCO – 300L Series

Power transfer mechanism

- Single solenoid operation
- Microprocessor controller
- Double throw operation

Engine starting contact

Connect signal wires to auto-start engine generator set

Source circuit breaker

- Normal (utility power)
- 200 amp, 60 Hz

Engine exerciser

- Built-in, 20-minute exerciser
- See Option 11BG in table for further details

Withstand current rating (WCR)

42,000 amps

UL certification & other safety compliances

- UL 1008, standard for transfer switch equipment
- CSA standard C22.2 for automatic transfer switches
- NFPA 110 for emergency and standby power systems
- NEC Articles 700, 701, and 702

Suppression Technology

Technology type

Strikesorb 40-A1, 120 V modules

Surge Protection Levels

Response time

<1 ns

Maximum surge current

- Surge current, imax (8/20) NEMA LS-1: 140 kA
- Lightning current, Iimp (10/350) IEC 61643-1: 7.5 kA

Let through voltage level

For surge current 10 kA (8/20) IEEE C62.41-1: 435 V - actual surge current through Strikesorb

Long duration surge performance

500 A square waveform 2 ms IEEE C62.11: 250 hits

Voltage protection rating (VPR)

600 V per UL 1449 3rd edition

Short Circuit Current Rating

- Tested for safe installation behind a 4000 A Class L time delay fuse at available fault current 200 kA
- 3-cycle testing at 85 kA

Standards Compliance

- IEEE C62.41, IEEE C62.45, IEEE C62.11, NEMA LS-1
- IEC 61643-1 ed 2:2005, EN-61642-A11:2005, IEC 61643-12

Intersect, Inc.

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P.O. Box 753 – Liberty Lake WA 99019 – USA
Phone: 509.255.9570 – Fax: 509.255.6034
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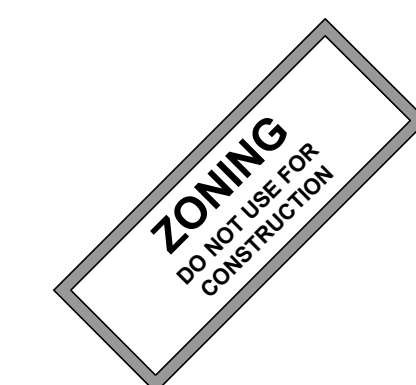
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SEAL:



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SHEET TITLE:

PTLC DETAILS

SHEET NUMBER:

C-8

REVISION:

I

TEP #:

314365.336181



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PSTC #: CANC-LINC01
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SHEET TITLE:
AC PANEL SCHEDULE

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

TEP #: 314365.336181

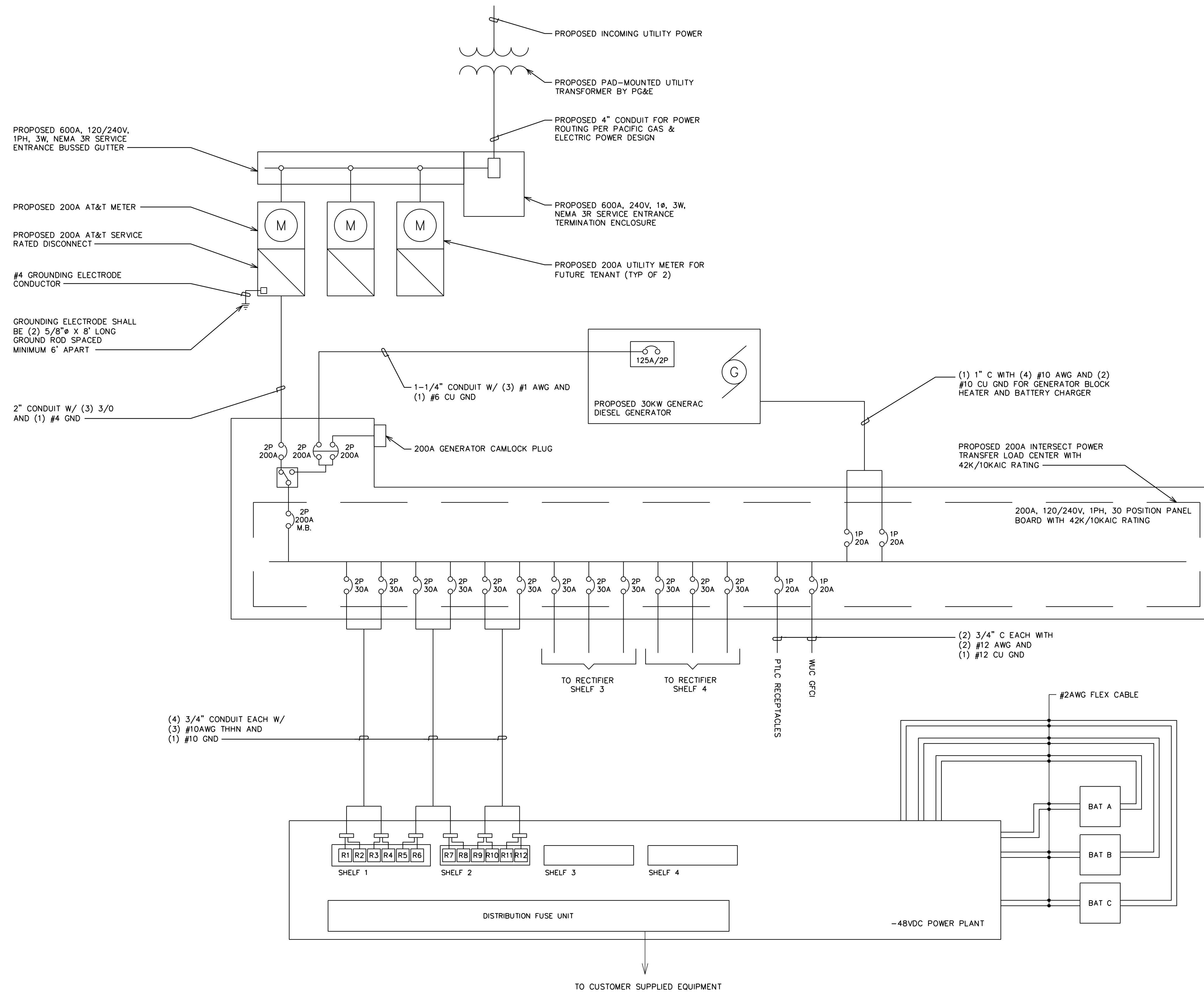
AC POWER PANEL A (PROPOSED)
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A

DESCRIPTION	MAIN BREAKER RATING (A) :				200		SYSTEM VOLTAGE (V) :				240	DESCRIPTION
	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA		
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:

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 1/2" 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.



1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

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

FIRSTNET/AT&T ID: CVL06561

**PSTC #: CANC-LINC01
LINCOLN AIRPORT**

**600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)**

**PROPOSED 85'-0" MONOPOLE
TOWER**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
E	02-01-23	SSO	ZONING	HMM
F	03-20-23	RCH	ZONING	HMM
G	06-26-23	CAM	ZONING	HMM
H	09-12-23	PSS	ZONING	HMM
I	10-10-23	PSS	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:
ONE-LINE DIAGRAM

SHEET NUMBER:
E-2

REVISION:
I

TEP #: 314365.336181



PSTC SITE NUMBER: CANC-LINC01
PSTC SITE NAME: LINCOLN AIRPORT
FIRSTNET/AT&T SITE NUMBER: CVL06561
FIRSTNET/AT&T PROPOSED SCOPE ON MONOPOLE

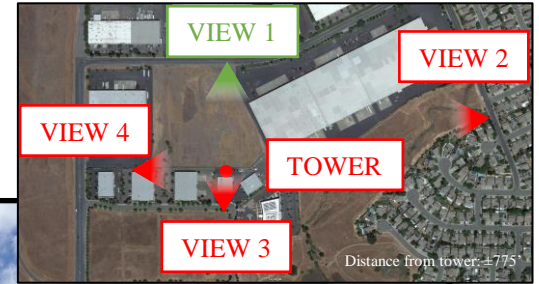
600 BUSINESS PARK DR
LINCOLN, CA 95648
(PLACER COUNTY)



EXISTING VIEW: NORTH ELEVATION



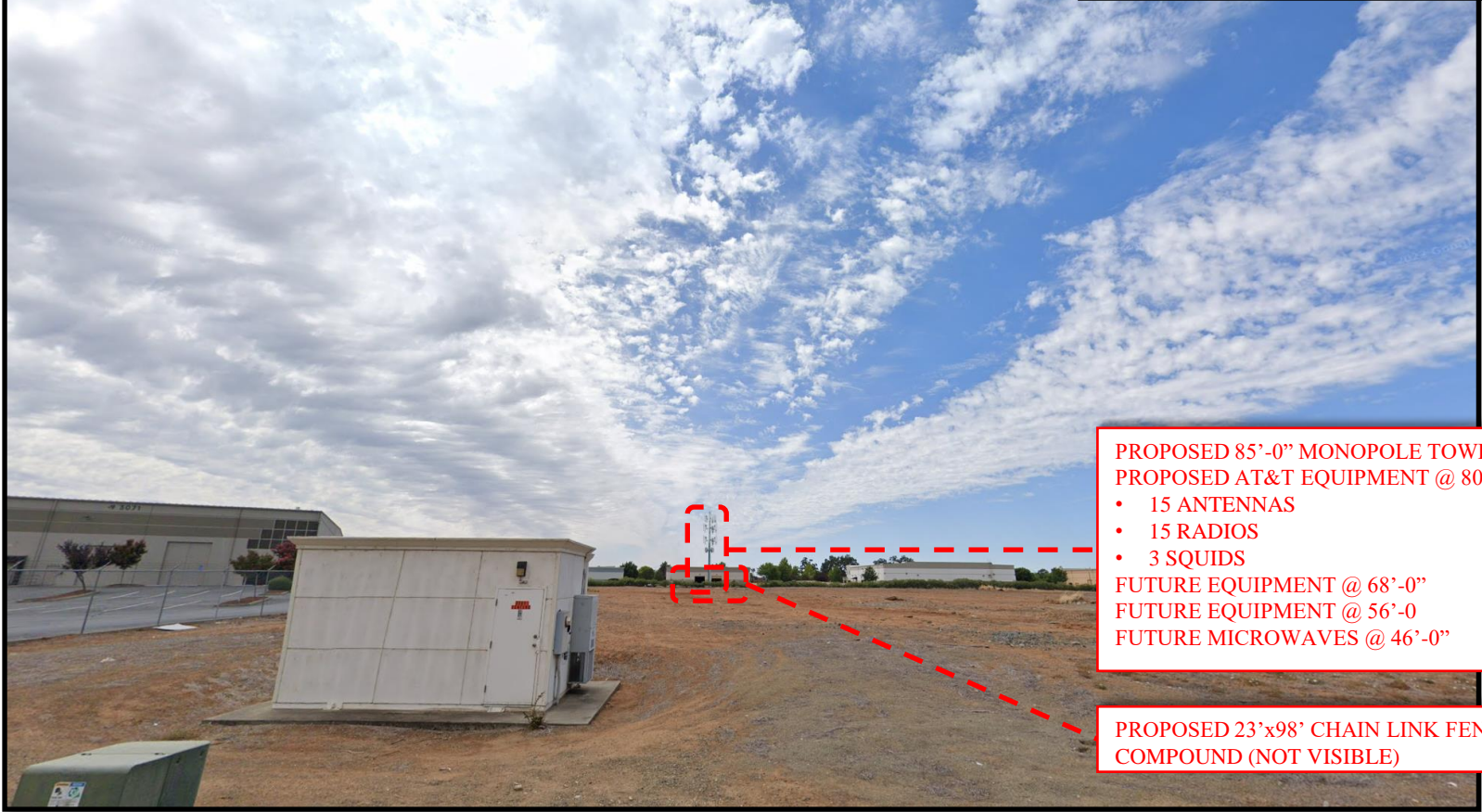
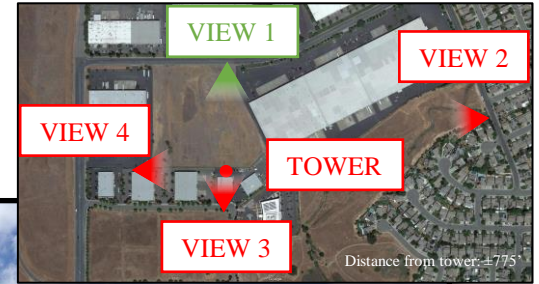
FIRSTNET/AT&T SITE NUMBER: CVL06561
PSTC SITE NUMBER: CANC-LINC01
ADDRESS: 600 BUSINESS PARK DR
LINCOLN, CA 95648
COUNTY: PLACER COUNTY



PROPOSED VIEW: NORTH ELEVATION



FIRSTNET/AT&T SITE NUMBER: CVL06561
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COUNTY: PLACER COUNTY



PROPOSED 85'-0" MONOPOLE TOWER:
PROPOSED AT&T EQUIPMENT @ 80'-0"

- 15 ANTENNAS
- 15 RADIOS
- 3 SQUIDS

FUTURE EQUIPMENT @ 68'-0"
FUTURE EQUIPMENT @ 56'-0"
FUTURE MICROWAVES @ 46'-0"

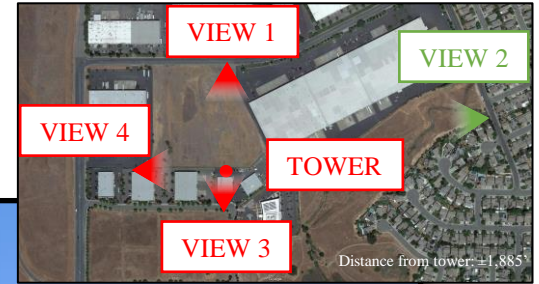
PROPOSED 23'x98' CHAIN LINK FENCED COMPOUND (NOT VISIBLE)



EXISTING VIEW: EAST ELEVATION



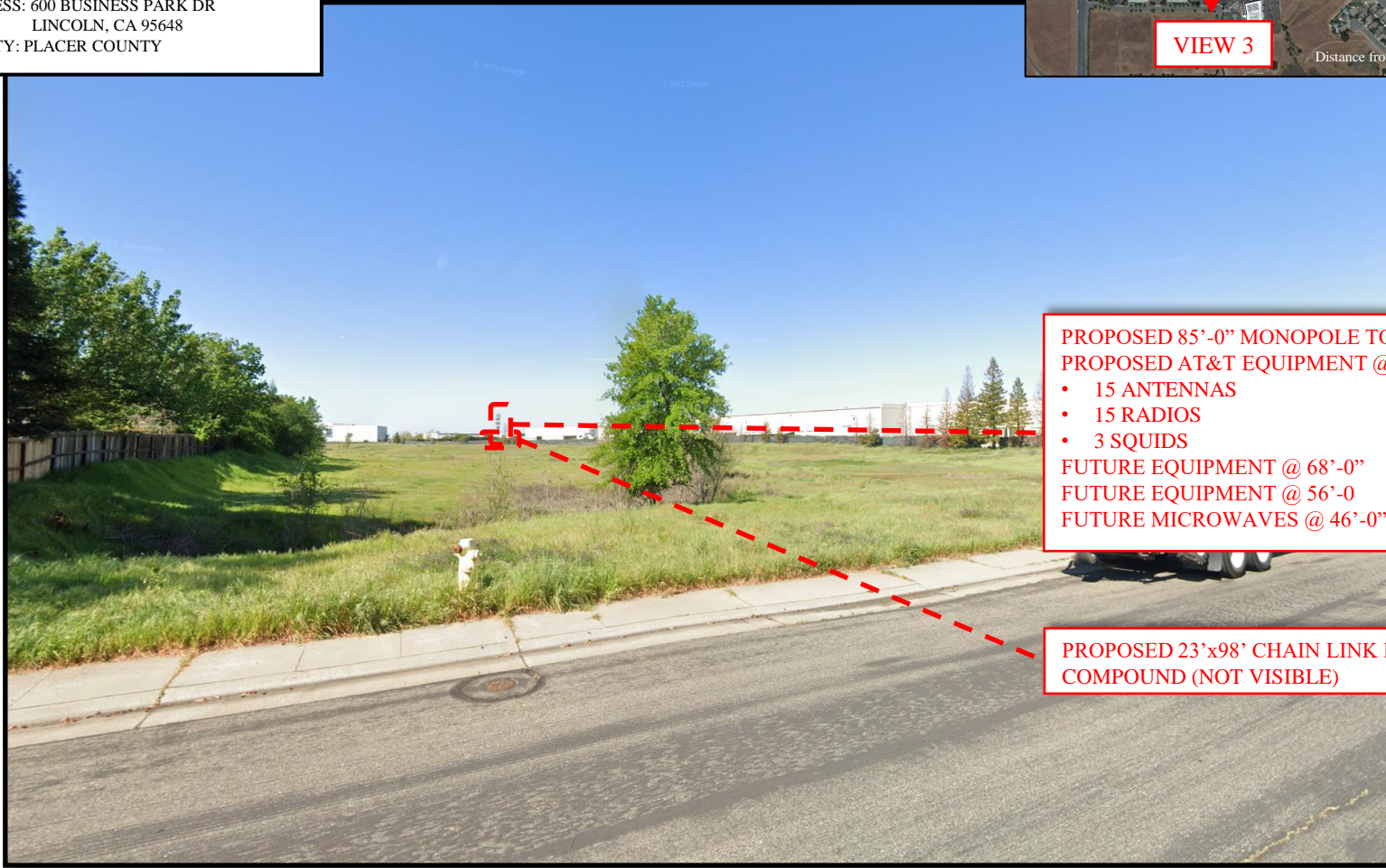
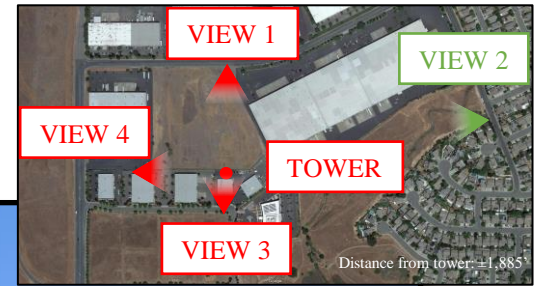
FIRSTNET/AT&T SITE NUMBER: CVL06561
PSTC SITE NUMBER: CANC-LINC01
ADDRESS: 600 BUSINESS PARK DR
LINCOLN, CA 95648
COUNTY: PLACER COUNTY



PROPOSED VIEW: EAST ELEVATION



FIRSTNET/AT&T SITE NUMBER: CVL06561
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PROPOSED 23'x98' CHAIN LINK FENCED
COMPOUND (NOT VISIBLE)



EXISTING VIEW: SOUTH ELEVATION



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PSTC SITE NUMBER: CANC-LINC01
ADDRESS: 600 BUSINESS PARK DR
LINCOLN, CA 95648
COUNTY: PLACER COUNTY

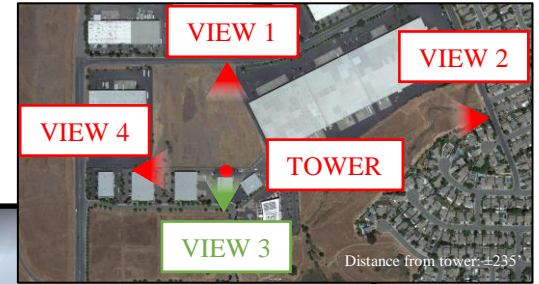


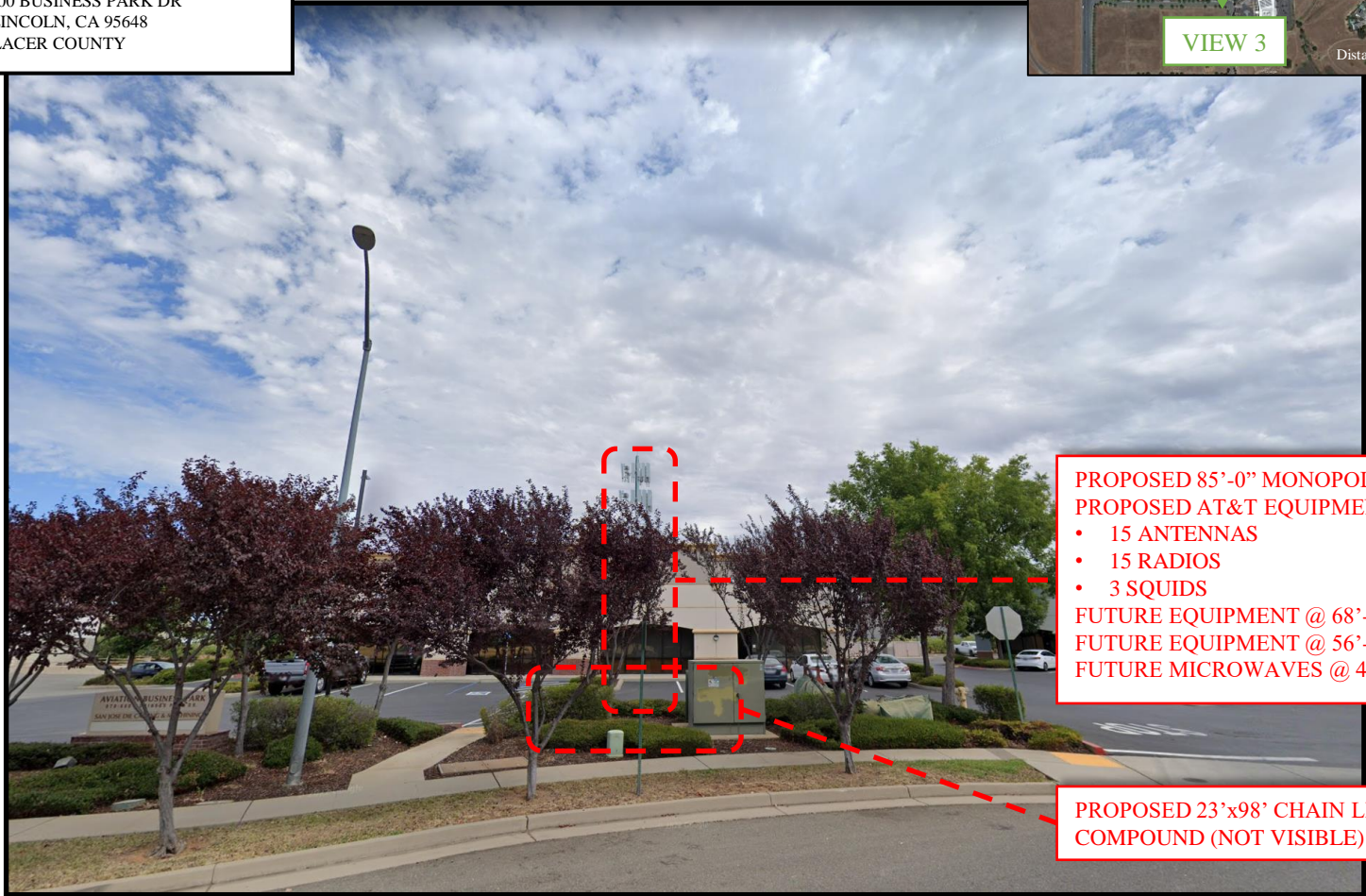
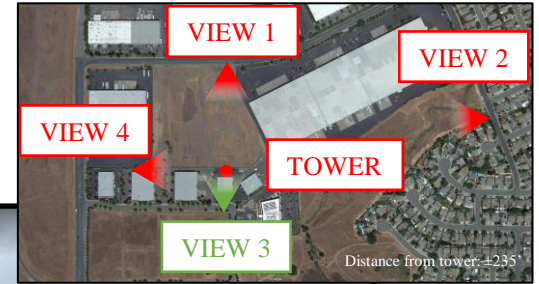
PHOTO RENDERED BY TOWER ENGINEERING PROFESSIONALS, INC.



PROPOSED VIEW: SOUTH ELEVATION



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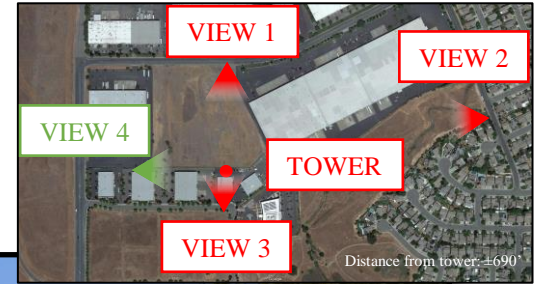
PROPOSED 23'x98' CHAIN LINK FENCED
COMPOUND (NOT VISIBLE)



EXISTING VIEW: WEST ELEVATION



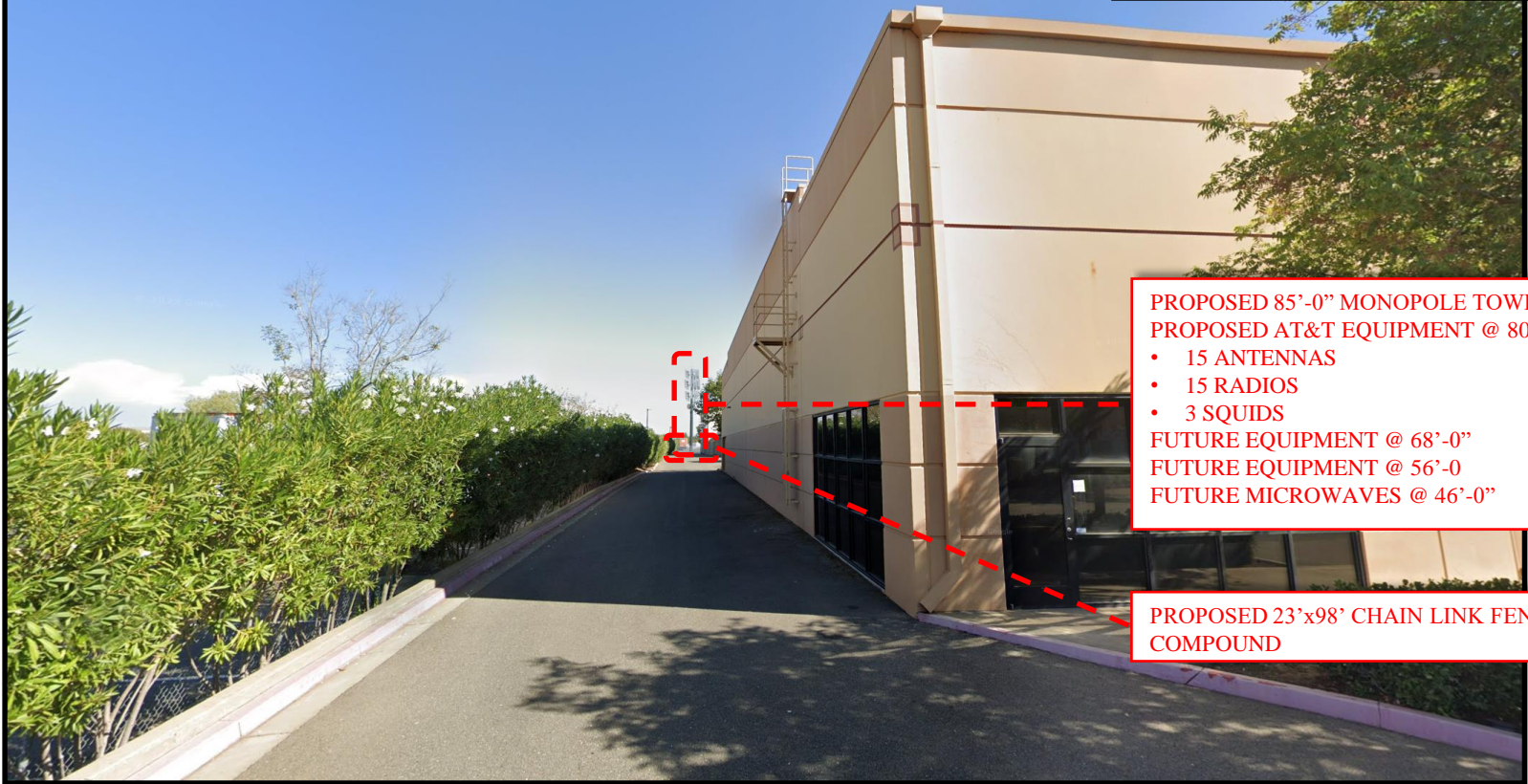
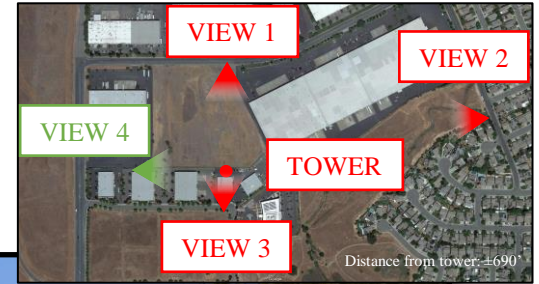
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PROPOSED VIEW: WEST ELEVATION



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