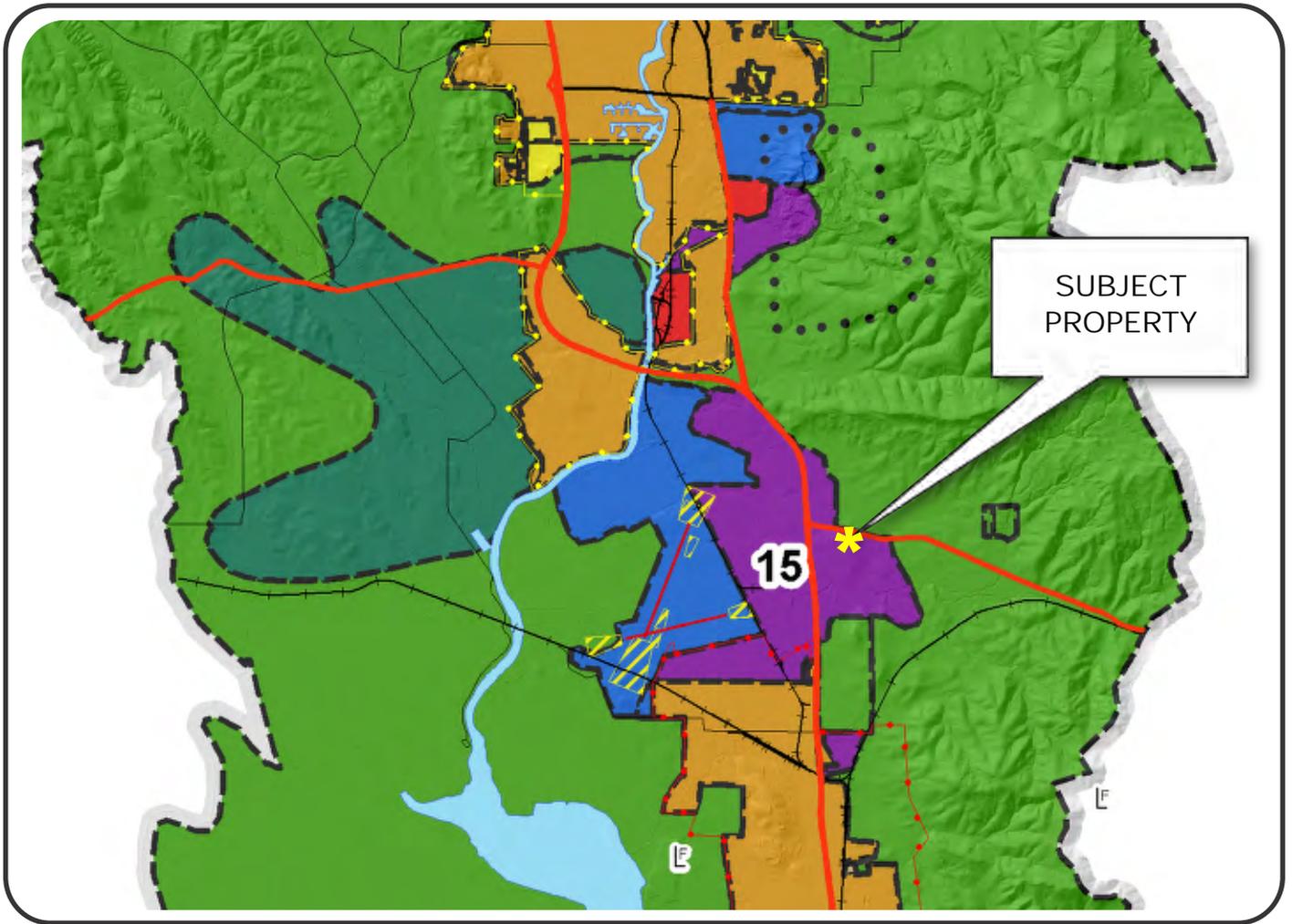


“M”

Graphics
Eagle Vines – AT&T Facility

NAPA COUNTY LAND USE PLAN 2008 - 2030



LEGEND



URBANIZED OR NON-AGRICULTURAL

- Study Area
- Cities
- Urban Residential*
- Rural Residential*
- Industrial
- Public-Institutional
- Napa Pipe Mixed Use

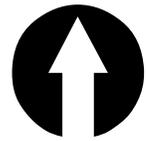
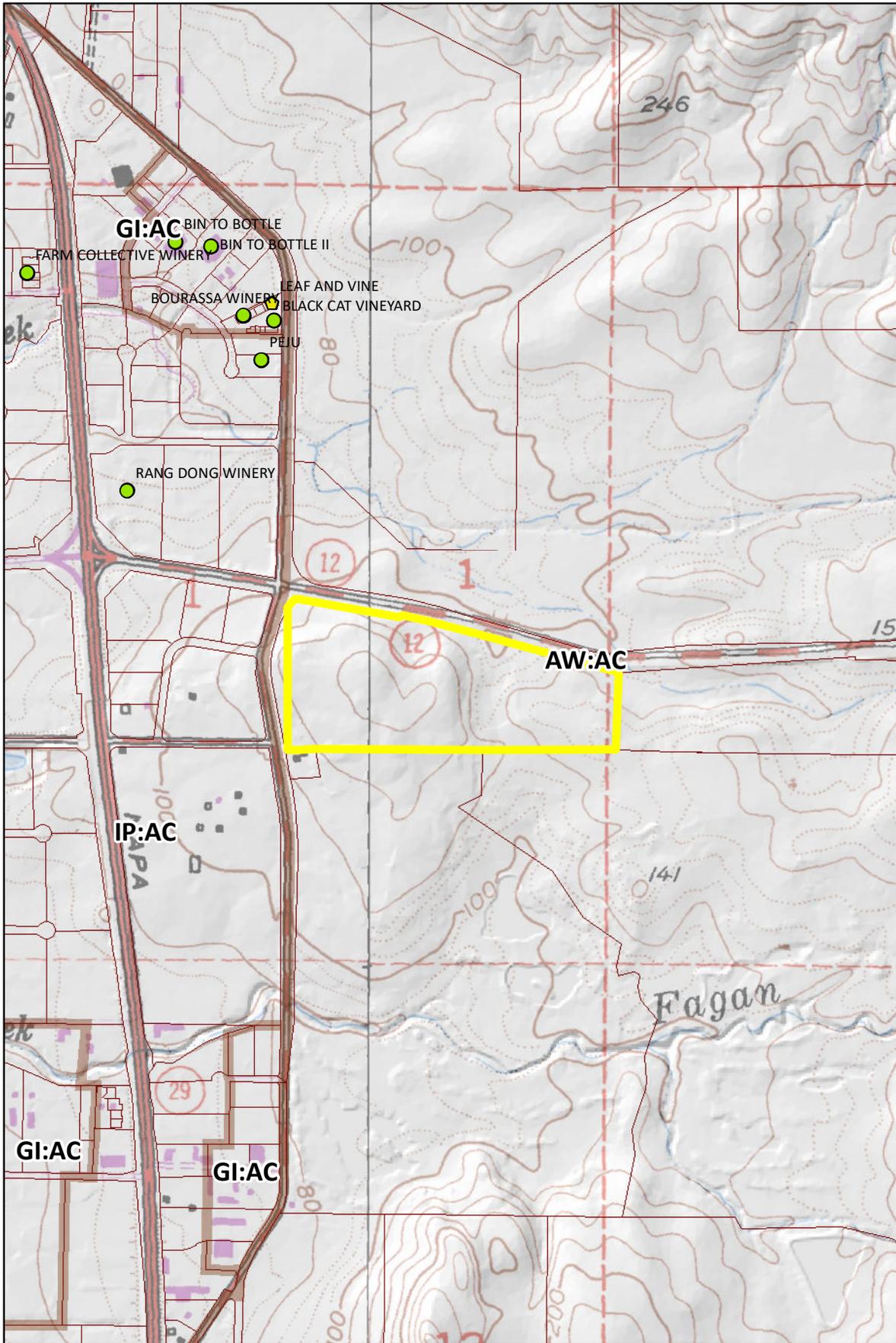
OPEN SPACE

- Agriculture, Watershed & Open Space
- Agricultural Resource

TRANSPORTATION

- Mineral Resource
- Limited Access Highway
- Major Road
- American Canyon ULL
- City of Napa RUL
- Landfill - General Plan
- Secondary Road
- Airport
- Railroad
- Airport Clear Zone

* See Action Item AG/LU-114.1 regarding agriculturally zoned areas within these land use designations

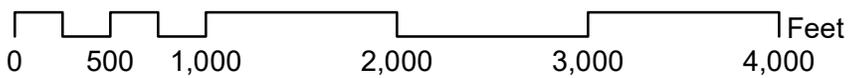


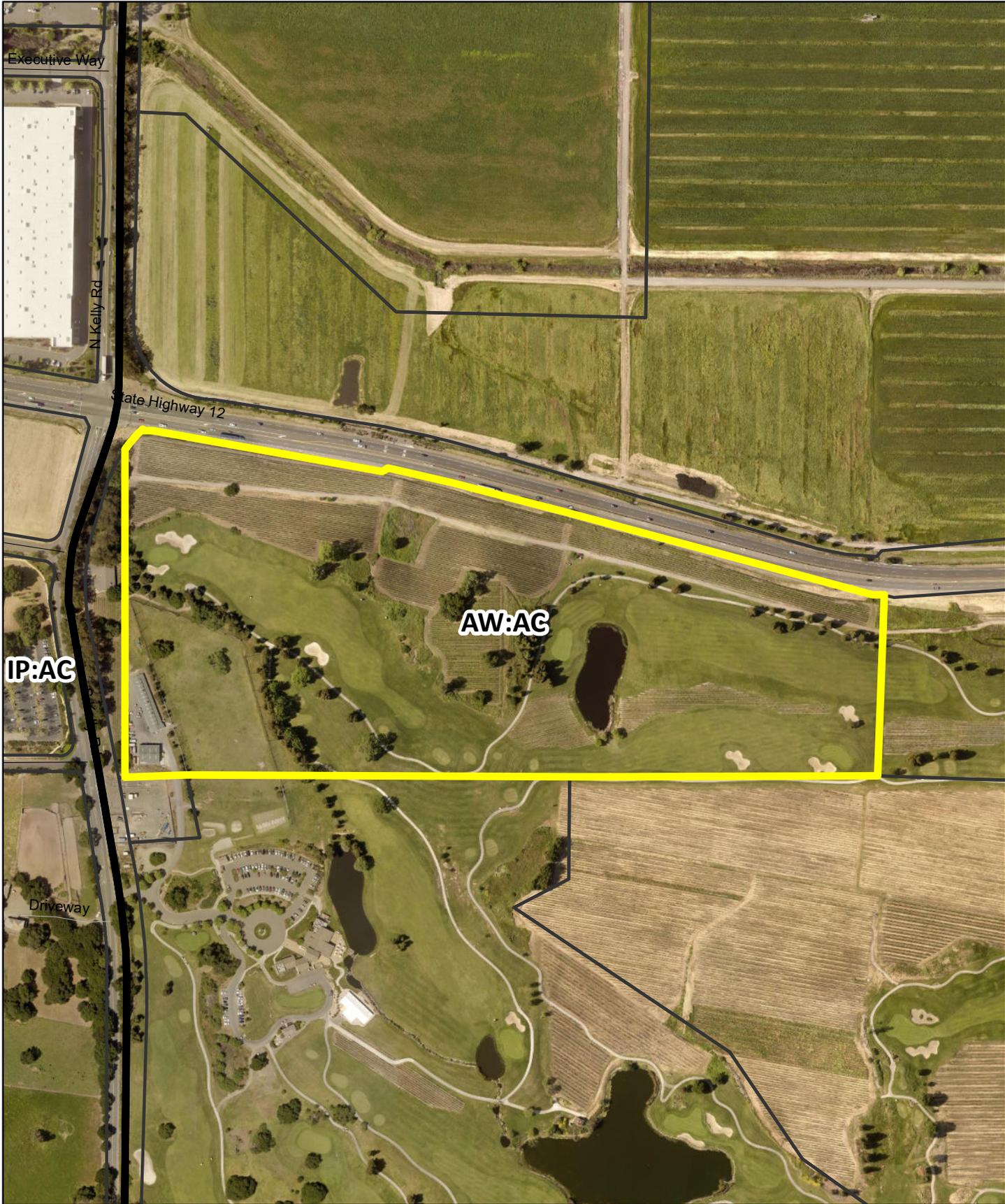
Legend

Wineries

Status

-  Producing
-  Producing, w/ pending major mod
-  Approved, not producing
-  Pending
-  Unknown
-  Zoning
-  Parcels

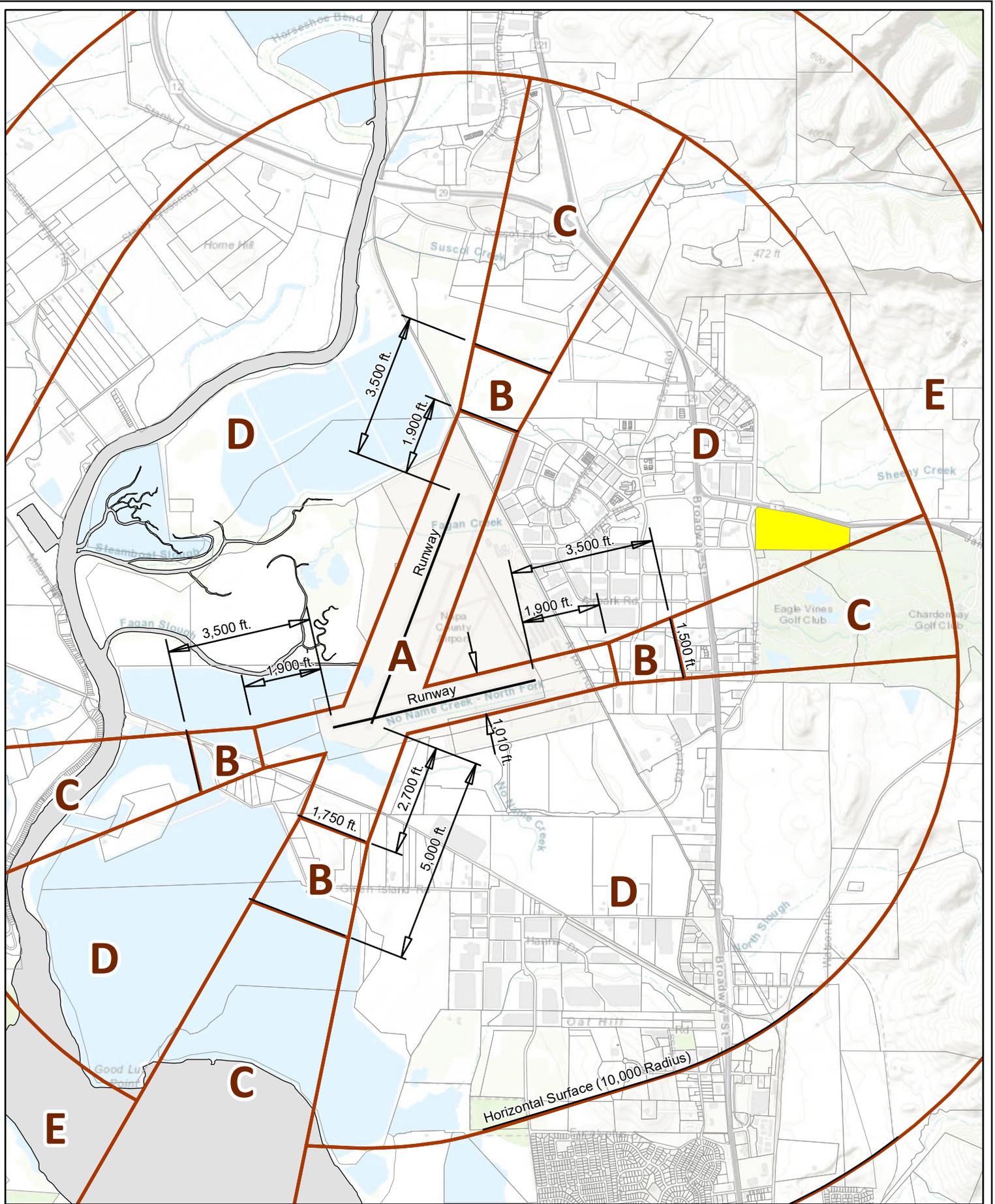




0 200 400 800 1,200 1,600 Feet



Aerials: Napa County, 2018



Compatibility Plan

Napa County Airport

Exhibit "D"



Horizontal Datum: NAD 83,
 CA State Plane Coordinates,
 Zone II, feet
 Disclaimer: This map was prepared for informational
 purposes only. No liability is assumed for the accuracy
 of the data delineated hereon.



0 750 1,500 3,000'

Napa County PBES - 03/10/2020



at&t

PACE: MRSFR030661
PTN: 3701A06ND7
FA: 13721763
USID: 193040

SITE NUMBER: CCL03781 SITE NAME: RSFR NSB CCL03781 EAGLE VINES

580 S KELLY RD.
AMERICAN CANYON, CA 94503

Jurisdiction: COUNTY OF NAPA

SITE TYPE: MONOPINE / WIC

PROJECT DESCRIPTION

CONSTRUCTION OF AN UNMANNED TELECOMMUNICATIONS FACILITY.

1. INSTALL POWER / TELCO / FIBER TO SITE LOCATION
2. INSTALL 80" X 80" PRE-MANUFACTURED CONCRETE EQUIPMENT WALK IN CABINET (WIC)
3. INSTALL NEW GPS UNIT
4. INSTALL (1) (P) 50' TALL STEEL MONOPINE
5. INSTALL (4) ANTENNAS AT SECTORS A, B, & C FOR A TOTAL OF (12)
6. INSTALL (5) RRHS AT SECTORS A, B & C, (15) TOTAL
7. INSTALL (1) FIBER TRUNKS AT SECTORS A, B & C, (3) TOTAL
8. INSTALL (1) SURGE SUPPRESSION AT SECTORS A, B & C, (3) TOTAL
9. INSTALL 6'-0" TALL CHAIN LINK FENCE ENCLOSURE WITH 3-STRAND ANTI-CLIMB BARRIER
10. INSTALL 30KW DC EMERGENCY BACKUP GENERATOR w/132 GALLON FUEL TANK, ON (P) GENERATOR PLATFORM
11. INSTALL H-FRAME WITH 200 AMP POWER METER, SITE DISCONNECT, CIENA & UAM

CODE COMPLIANCE

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

1. CALIFORNIA ADMINISTRATIVE CODES (INCL. TITLES 24 & 25) 2016
2. CALIFORNIA BUILDING CODE 2016
3. CALIFORNIA ELECTRICAL CODE 2016
4. CALIFORNIA MECHANICAL CODE 2016
5. CALIFORNIA PLUMBING CODE 2016
6. CALIFORNIA FIRE CODE 2016
7. LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE.
8. CITY / COUNTY ORDINANCES

ALONG WITH ANY OTHER APPLICABLE LOCAL AND STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1, CHAPTER 11B, DIVISION 2, SECTION 11B-203.5

OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY : U (UNMANNED)

CONSTRUCTION TYPE: V-B

VICINITY MAP



DIRECTIONS FROM AT&T's OFFICE

DIRECTIONS FROM AT&T's OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA

1. PKWY TOWARD CAMINO RAMON
2. TURN RIGHT ONTO CAMINO RAMON
3. TURN RIGHT ONTO BOLLINGER CANYON RD
4. TAKE RAMP RIGHT FOR I-680 NORTH TOWARD SACRAMENTO
5. TOLL ROAD
6. AT EXIT 58A, TAKE RAMP LEFT FOR I-780 WEST TOWARD BENICIA / VALLEJO
7. AT EXIT 1B, TAKE RAMP RIGHT FOR I-80 EAST TOWARD SACRAMENTO
8. AT EXIT 33, TAKE RAMP RIGHT FOR CA-37 TOWARD NAPA
9. AT EXIT 19, TAKE RAMP RIGHT FOR CA-29 TOWARD NAPA
10. TURN RIGHT ONTO CA-29 N / SONOMA BLVD
11. TURN RIGHT ONTO S KELLY RD
12. ARRIVE AT S KELLY RD

DESTINATION WILL BE AHEAD ON THE LEFT

PROJECT INFORMATION

Property Information:

Site Name: RSFR NSB CCL03781 EAGLE VINES
Site Number: CCL03781
Site Address: 580 S KELLY RD, AMERICAN CANYON, CA 94503
A.P.N. Number: 057-060-007
Current Zoning: ---
Jurisdiction: COUNTY OF NAPA
Latitude: 38° 13' 15.69" 38.221025
Longitude: -122° 15' 9.70" -122.252694
Elevation: 158.3' AMSL

Power Agency:

PG&E
1 MARKET STREET, SPEAR TOWER
SAN FRANCISCO, CA 94105

Telephone Agency:

AT&T
525 MARKET STREET
SAN FRANCISCO, CA 94105

Property Owner:

NAPA SANITATION DISTRICT
1515 SOSCOL FERRY RD.
NAPA, CA. 94558
ph: 707-258-6000

PROJECT TEAM

Applicant/ Lessee:

AT&T
contact: ALYSSA FERRIS
5001 EXECUTIVE PARKWAY, 4W5501
SAN RAMON, CA 94583
ph: (530) 966-2612
email: alyssa.brandtman@att.com

Design Professional:

BORGES ARCHITECTURAL GROUP, INC.
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE, CA 95661
contact: MATTHEW T. DOUGHERTY
email: matthew@borgesarch.com
ph: (916) 782-7200
fax: (916) 773-3037

Site Acquisition:

J5 INFRASTRUCTURE PARTNERS
contact: MICHAEL GUIGIOTTO
email: mguiglotto@J5IP.com
ph: (415) 225-6667

Zoning Agent:

J5 INFRASTRUCTURE PARTNERS
Contact: DEREK TURNER
email: dtturner@J5IP.com
ph: (415) 420-4922

Construction Design Manager - NSB:

VINCULUMS SERVICES, INC.
contact: DAN RICO
email: drico@vinculums.com
ph: (925) 876-6227

RF Engineer:

AT&T
contact: MICHAEL BALBUENA
email: mb6647@att.com
ph: (925) 227-6216

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 36" x 24" (D1). CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

SHEET INDEX

HEAD END DRAWINGS:

TS-1	TITLE SHEET	G
GN-1	GENERAL NOTES, ABBREVIATIONS, & NOTES	F
GN-2	SITE SIGNAGE	G
GN-3	BATTERY SPECIFICATION	G
C-1	EXISTING SITE CONDITIONS	F
A-1.1	OVERALL SITE PLAN	G
A-1.2	ENLARGED SITE PLAN	G
A-2.1	ENLARGED EQUIPMENT PLANS	G
A-2.2	ENLARGED ANTENNA PLANS	G
A-3.1	ELEVATIONS	G
A-3.2	ELEVATIONS	G
A-4	EQUIPMENT DETAILS	G
A-5	GENERATOR SPECIFICATIONS	G

ARCHITECTURAL GROUP
Borges

borgesarch.com

1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX



J5
INFRASTRUCTURE
PARTNERS

1150 BALLENA BLVD, #259
ALAMEDA, CA 94501



5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

STAMP

DRAWN BY: DAG PROJECT NO.: T-16501-9

CHECK BY: M.T.D.

SHEET TITLE

TITLE SHEET

SHEET NO.



800-227-2600
Call 2 Full Working Days In Advance

TS-1

GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

APPLICABLE CODES, REGULATIONS AND STANDARDS:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
- IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS); PHYSICAL PROTECTION
- TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
- TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

A.B.	ANCHOR BOLT	IN. (")	INCH(ES)
ABV.	ABOVE	INT.	INTERIOR
ACCA	ANTENNA CABLE COVER ASSEMBLY	LB.(#)	POUND(S)
ADDL	ADDITIONAL	L.B.	LAG BOLTS
A.F.F.	ABOVE FINISHED FLOOR	L.F.	LINEAR FEET (FOOT)
A.F.G.	ABOVE FINISHED GRADE	L.O.N.G.	LONG (TRIDINAL)
ALUM.	ALUMINUM	M.A.S.	MASONRY
ALT.	ALTERNATE	MAX.	MAXIMUM
ANT.	ANTENNA	M.B.	MACHINE BOLT
APPRX.	APPROXIMATE(LY)	MECH.	MECHANICAL
ARCH.	ARCHITECTURE(L)	MFR.	MANUFACTURER
AWG.	AMERICAN WIRE GAUGE	MIN.	MINIMUM
BLDG.	BUILDING	MISC.	MISCELLANEOUS
BLK.	BLOCK	MTL.	METAL
BLKG.	BLOCKING	(N)	NEW
BM.	BEAM	NO.(#)	NUMBER
B.N.	BOUNDARY NAILING	N.T.S.	NOT TO SCALE
BTCW.	BARE TINNED COPPER WIRE	O.C.	ON CENTER
B.O.F.	BOTTOM OF FOOTING	OPNG.	OPENING
B/U	BACK-UP CABINET	P/C	PRECAST CONCRETE
CAB.	CABINET	PCS	PERSONAL COMMUNICATION SERVICES
CANT.	CANTILEVER(ED)	PLY.	PLYWOOD
C.I.P.	CAST IN PLACE	PPC	POWER PROTECTION CABINET
CLG.	CEILING	PRC	PRIMARY RADIO CABINET
CLR.	CLEAR	P.S.F.	POUNDS PER SQUARE FOOT
COL.	COLUMN	P.S.I	POUNDS PER SQUARE INCH
CONC.	CONCRETE	P.T.	PRESSURE TREATED
CONN.	CONNECTION(OR)	PWR.	POWER (CABINET)
CONST.	CONSTRUCTION	QTY.	QUANTITY
CONT.	CONTINUOUS	RAD.(R)	RADIUS
d	PENNY (NAILS)	REF.	REFERENCE
DBL.	DOUBLE	RENF.	REINFORCEMENT(ING)
DEPT.	DEPTH	REQ'D/	REQUIRED
D.F.	DOUGLAS FIR	RGS.	RIGID GALVANIZED STEEL
DIA.	DIAMETER	SCH.	SCHEDULE
DIAG.	DIAGONAL	SHT.	SHEET
DM.	DIMENSION	SIM.	SIMILAR
DWG.	DRAWING(S)	SPEC.	SPECIFICATIONS
DW/L.	DOWEL(S)	SQ.	SQUARE
EA.	EACH	S.S.	STAINLESS STEEL
EL.	ELEVATION	STD.	STANDARD
ELEC.	ELECTRICAL	STL.	STEEL
ELEV.	ELEVATOR	STRUC.	STRUCTURAL
EMT.	ELECTRICAL METALLIC TUBING	TEMP.	TEMPORARY
E.N.	EDGE NAIL	THK.	THICKNESS
ENG.	ENGINEER	T.N.	TOE NAIL
EQ.	EQUAL	T.O.A.	TOP OF ANTENNA
EXP.	EXPANSION	T.O.C.	TOP OF CURB
EXST.(E)	EXISTING	T.O.F.	TOP OF FOUNDATION
EXT.	EXTERIOR	T.O.P.	TOP OF PLATE (PARAPET)
FAB.	FABRICATION(OR)	T.O.S.	TOP OF STEEL
F.F.	FINISH FLOOR	T.O.W.	TOP OF WALL
F.G.	FINISH GRADE	TYP.	TYPICAL
FN.	FINISH(ED)	U.G.	UNDER GROUND
FLR.	FLOOR	U.L.	UNDERWRITERS LABORATORY
FDN.	FOUNDATION	U.N.O.	UNLESS NOTED OTHERWISE
F.O.C.	FACE OF CONCRETE	V.I.F.	VERIFY IN FIELD
F.O.M.	FACE OF MASONRY	W	WIRE (WIDTH)
F.O.S.	FACE OF STUD	w/	WITH
F.O.W.	FACE OF WALL	WD.	WOOD
F.S.	FINISH SURFACE	W.P.	WEATHERPROOF
FT. (')	FOOT (FEET)	WT.	WEIGHT
FTG.	FOOTING	Ꞥ	CENTERLINE
G.	GROWTH (CABINET)	Ꞥ	PLATE, PROPERTY LINE
GA.	GAUGE		
GI	GALVANIZE(D)		
G.F.I	GROUND FAULT CIRCUIT INTERRUPTER		
GLB. (GLU-LAM)	GLUE LAMINATED BEAM		
GPS	GLOBAL POSITIONING SYSTEM		
GRND.	GROUND		
HDR.	HEADER		
HGR.	HANGER		
HT.	HEIGHT		
ICGB.	ISOLATED COPPER GROUND BUS		

SYMBOLS LEGEND

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



borgesarch.com

1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX



J5
INFRASTRUCTURE
PARTNERS
1150 BALLENA BLVD. #259
ALAMEDA, CA 94501



5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

REV	DATE	DESCRIPTION
G	05/21/19	100% ZD REV 3
F	05/03/19	100% ZD REV 2
E	12/13/18	PLAN CHECK COMMENTS
D	12/05/18	100% ZD REV 1
C	09/24/18	100% ZD SUBMITTAL
B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL

STAMP

DRAWN BY: DAG PROJECT NO.: T-16501-9

CHECK BY: M.T.D.

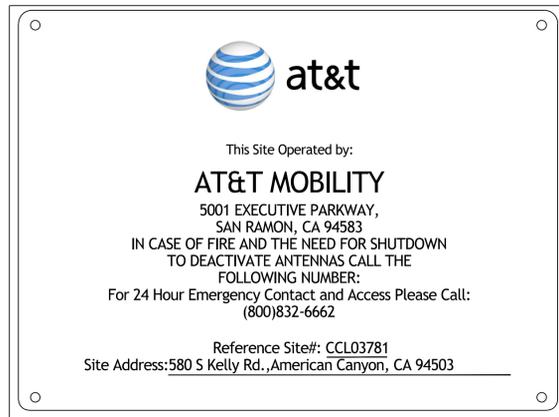
SHEET TITLE

**GENERAL NOTES -
LEGENDS &
ABBREVIATIONS**

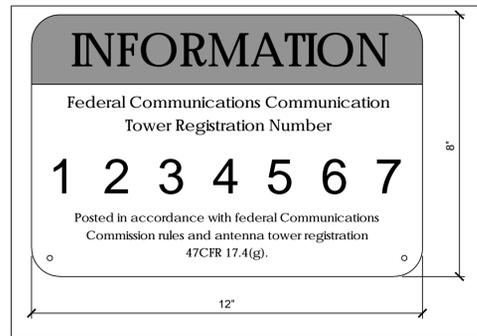
SHEET NO.

GN-1

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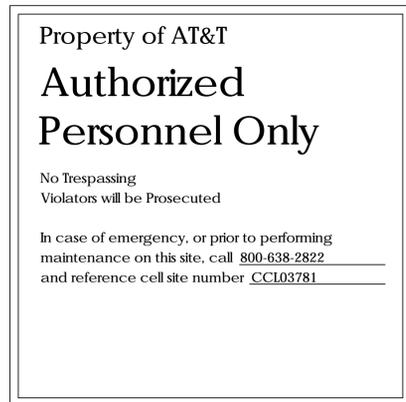
20 FENCED COMPOUND SIGNAGE
N.T.S.



19 FENCED COMPOUND SIGNAGE
N.T.S.



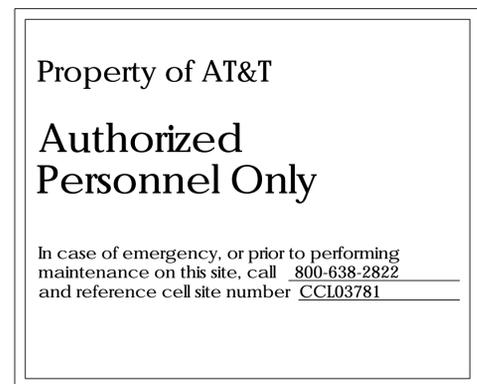
15 FCC ASR SIGNAGE
N.T.S.



18 DOOR / EQUIPMENT SIGN
N.T.S.



14 GATE SIGNAGE
N.T.S.

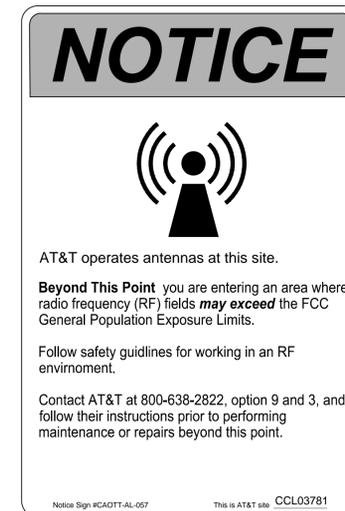
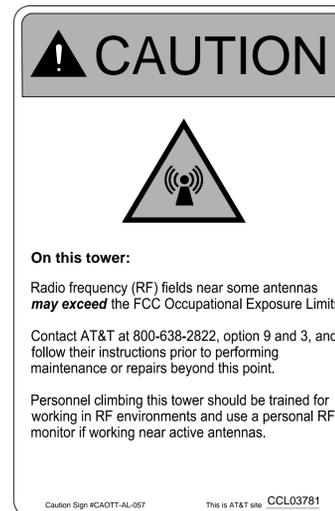


17 NFPA HAZARD SIGN
N.T.S.

13 SHELTER / CABINET DOORS SIGNAGE
N.T.S.

5 CAUTION AND NOTICE SIGNAGE
N.T.S.

NOTE:
1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.
2. CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE



3 GENERAL NOTES
N.T.S.

rename me to this view "dwg" name

SIGNAGE AND STRIPING INFORMATION

- THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
- THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mW/cm² AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm²
- IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
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- ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE. UPON CONSTRUCTION COMPLETION.



borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX



J5
INFRASTRUCTURE
PARTNERS
1150 BALLENA BLVD. #259
ALAMEDA, CA 94501



5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

REV	DATE	DESCRIPTION
G	05/21/19	100% ZD REV 3
F	05/03/19	100% ZD REV 2
E	12/13/18	PLAN CHECK COMMENTS
D	12/05/18	100% ZD REV 1
C	09/24/18	100% ZD SUBMITTAL
B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL

STAMP

DRAWN BY: DAG PROJECT NO.: T-16501-9
CHECK BY: M.T.D.
SHEET TITLE

SITE SIGNAGE

SHEET NO.

rename me to this view "dwg" name

P:\Data\625019 5.01.02.PW File Name: 2018111601_Caled.LIC US Infrastructure\CCL03781 ACID03781.dwg Plot Date: 20181116 10:05:00 AM Plot Path: \\nas01\plotters\dwg\at&t\Plot\DWG\Bldg\A\0-01\Equipment\Plan.dwg Plotted By: David Gomez

GHS SAFETY DATA SHEET																																																	
I. PRODUCT IDENTIFICATION																																																	
MANUFACTURER/SUPPLIER GNB Industrial Power A Division of Exide Technologies 3950 Saucus Avenue Aurora, IL 60504-7932	CHEMICAL/TRADE NAME MARATHON and SPRINTER Valve Regulated Lead Acid Battery																																																
FOR FURTHER INFORMATION Primary Contact: Exide MSDS Support (770) 421-3485 Secondary Contact: Joe Biles (423) 989-6377 Fred Gauster (610) 921-4052	CHEMICAL FAMILY/ CLASSIFICATION Electrical Storage Battery Motorcycle type																																																
FOR EMERGENCY CHEMTREC (800) 424-9300 (703) 527-3887 - Collect 24-hour Emergency Response Contact Ask for Environmental Coordinator																																																	
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<p>WARNING: Batteries subjected to abusive charging at excessively high currents for prolonged periods of time without vent caps in place may create a surrounding atmosphere of the offensive strong inorganic acid mist containing sulfuric acid.</p> <p>Reactivity: Highly reactive with water and alkalis</p>																																																	

III. COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	CAS Number	% by Wt.
Inorganic components of:		
Lead	7439-92-1	71.76
Copper	7440-50-8	<0.1
Tin	7440-31-5	0.4-0.6
Electrolyte (sulfuric acid)	7664-93-9	16-18
Case Material:		
Polypropylene	9003-07-0	6-7
Talc (Non-Asbestos Type)	14807-06-6	<1.2
Plate separator material:		
Glass	N/A	2-3
IV. FIRST AID MEASURES		
<p>Take proper precautions to ensure you own health and safety before attempting to rescue a victim and provide first aid.</p>		
Inhalation:	<p>Electrolyte: Remove to fresh air immediately. If breathing is difficult, give oxygen.</p> <p>Lead compounds: Remove from exposure, gargle, wash nose, eyes and lips; consult physician.</p>	
Skin Contact:	<p>Electrolyte: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes, and do not wear clothes again until cleaned. If acid is splashed on shoes, remove and discard if they contain leather.</p> <p>Lead compounds: Wash immediately with soap and water. Lead compounds are not readily absorbed through the skin.</p>	
Eye Contact:	<p>Electrolyte and Lead compounds: Flush immediately with large amounts of water for at least 15 minutes; consult physician immediately.</p>	
Ingestion:	<p>Electrolyte: Give large quantities of water; do not induce vomiting; consult physician.</p> <p>Lead compounds: Consult physician immediately.</p>	
V. FIRE FIGHTING MEASURES		
Flash Point:	Not Applicable	
Flammable Limits:	LEL = 4.1% (hydrogen gas in air); UEL = 74.2%	
Extinguishing media:	CO ₂ ; foam; dry chemical	
Fire Fighting Procedures:	Use positive pressure, self-contained breathing apparatus. Beware of acid splatter during water application and wear acid-resistant clothing, gloves, face and eye protection. If batteries are on charge, shut off power to the charging equipment, but, note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.	
Hazardous Combustion Products:	In operation, or when on charge, batteries generate hydrogen and oxygen gases (hydrogen is highly flammable and oxygen supports combustion). They must always be assumed to contain these gases which, if ignited by burning cigarette, naked flame or spark, may cause battery explosion with dispersion of casing fragments and corrosive liquid electrolyte. Carefully follow manufacturer's instructions for installation and service. Keep away all sources of gas ignition, ensure that adequate ventilation is provided, and do not allow metallic articles to simultaneously contact the positive and positive terminals of a battery.	
VI. ACCIDENTAL RELEASE MEASURES		
Remove combustible materials and all sources of ignition. Stop flow of material and contain spill by diking with soda ash, etc. Carefully neutralize spill with soda ash, etc. Make certain mixture is neutral then collect residue and place in a drum or other suitable container with a label specifying "contains hazardous waste" or (if uncertain call distributor regarding proper labeling procedure). Dispose of as hazardous waste. If battery is leaking, place battery in a heavy duty plastic bag. Wear acid resistant boots, face shield, chemical splash goggles and acid resistant gloves. Do not allow discharge of acid to sewer. Acid must be managed in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.		
VII. HANDLING AND STORAGE		
Handling:	Single batteries pose no risk of electric shock but there may be increasing risk of electric shock from strings of connected batteries exceeding three 12-volt units. Batteries are non-spillable - potential for exposure to contents only during recycling or if outer casing is cracked or damaged.	
Storage:	Store batteries under cool, dry, well-ventilated areas that are separated from incompatible materials and from activities which may create flames, sparks, or heat. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit.	

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION						
Ingredient	Occupational Exposure Limits (mg/m ³)					
	US OSHA	US ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Inorganic compounds of:						
Lead	0.05	0.05	0.05	0.05	0.05	0.15(b)
Copper	1	1	1	1	1	1(a)
Tin	2	2	2	2	2	2
Electrolyte (sulfuric acid/water solution)	1	0.2	1	1	0.2	0.05(c)
<p>NIOSH:</p> <p>(a) as dust/mists</p> <p>(b) as inhalable aerosol</p> <p>(c) thoracic fraction</p> <p>(d) based on OEL for Netherlands</p>						
Engineering Controls (Ventilation):	Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously. Make certain vent caps are on securely. If battery case is damaged, avoid bodily contact with internal components. Wear protective clothing, eye and face protection, when charging or handling batteries. Follow all manufacturers' recommendations when stacking or palletizing. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Use a battery carrier to lift a battery or charge bank at opposite corners to avoid spilling acid through the vents. Avoid contact with internal components of the batteries.					
Hygiene Practices:	Wash hands thoroughly before eating, drinking or smoking after handling batteries.					
Respiratory Protection (NIOSH/MSHA approved):	None required under normal conditions. If an overcharging or overheating condition exists and concentrations of sulfuric acid mist are known or suspected to exceed PEL, use NIOSH or MSHA-approved respiratory protection.					
Skin Protection:	None required under normal conditions. If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing, and boots.					
Eye Protection:	None required under normal conditions. If battery case is damaged, chemical goggles or face shield.					
Other Protection:	In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply.					
IX. PHYSICAL AND CHEMICAL DATA - ELECTROLYTE						
Boiling Point/760 mm Hg:	Electrolyte: 219 to 237° F	Specific Gravity @ 77°F (H ₂ O=1)				
Melting Point:	Not Applicable	Vapor Pressure (mm Hg)				
% Solubility in Water:	100	all				
Evaporation Rate:	Less than 1	Vapor Density (AIR=1)				
Appearance and Odor Threshold:	Sulfuric Acid: A clear liquid with a sharp, penetrating, pungent odor.	Viscosity				
Octanol Water Partition Coefficient (K_{ow}):	Not Applicable	% Volatiles by Volume @ 70°F				
<p>A battery is a manufactured article; no apparent odor.</p> <p>Not Applicable.</p>						

X. STABILITY & REACTIVITY DATA	
Stability: Stable	
Conditions to Avoid: Prolonged overcharging and overheating current; sparks and other sources of ignition.	
Incompatibilities: (materials to avoid)	
Electrolyte: Contact of sulfuric acid with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, most metals, carbides, chlorates, nitrates, and perate, sulfur trioxide gas, strong oxidizers, and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas. No further concern for mechanical impact.	
Lead compounds: Avoid contact with strong acids, bases, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen, potassium, carbides, sulfides, phosphorus, sulfur and reducing agents.	
Hazardous Decomposition Products:	
Electrolyte: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, hydrogen sulfide, hydrogen.	
Lead compounds: Temperatures above the melting point are likely to produce toxic metal fume, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.	
Hazardous Polymerization: Will Not Occur	
XI. TOXICOLOGICAL DATA	
Routes of Entry:	
Electrolyte: Harmful by all routes of entry. Under normal conditions of use, sulfuric acid vapors and mist are not generated. Sulfuric acid vapors and mist may be generated when product is overcharged, oxidized, or otherwise processed or damaged.	
Lead compounds: Under normal conditions of use, lead dust, vapors, and fumes are not generated. Hazardous exposure can occur only when product is heated above the melting point, oxidized or otherwise processed or damaged to create dust, vapor, or fume.	
Acute Toxicity:	
Inhalation LD₅₀: Electrolyte: LC ₅₀ rat: 375 mg/m ³ ; LC ₅₀ guinea pig: 510 mg/m ³	
Oral LD₅₀: Electrolyte: rat: 2140 mg/kg	
Electrolyte: rat: 2140 mg/kg	
Lead compound: Acute Toxicity Estimate (ATE) - 500 mg/kg body weight (based on lead ballion)	
XII. REGULATORY INFORMATION	
United States:	
EPA Air Act Title III:	
Section 302 EPCRA Extremely Hazardous Substances (EHS): Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs.	
EPCRA Section 302 notification is required if 500 lbs or more of sulfuric acid is present at one site. An average automotive commercial battery contains approximately 5 lbs of sulfuric acid. Contact your GNB representative for additional information.	
Section 304 CERCLA Hazardous Substances: Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.	
Note: The properties above reflect 20-40% Sulfuric acid	

XIII. TRANSPORT INFORMATION		
GROUND - US-DOT/CAN-TDCEI-ADR/PEF-CADR: Business, Wet, Non-Spillable		
UN 2800, 3, PG II		
Label: "NON-SPILLABLE" or "NON-SPILLABLE BATTERY"		
For US, refer to 49 CFR 173.159 for details.		
AIRCRAFT - ICAO-IATA: For air shipments, reference IATA Dangerous Goods Regulations Special Provision A67 and Packing Instruction 872.		
VESSEL - IMO-IMDG: For shipments by water, reference IMDG Special Provision 238 and Packing Instruction P003.		
ADDITIONAL INFORMATION:		
- Non-Spillable Battery complies with the provisions listed in 49 CFR 173.159. Does not require marking with an identification number or hazardous label and is not subject to hazardous shipping paper requirements.		
- Each battery and the outer packaging must be plainly and durably marked "NON-SPILLABLE" or "NON-SPILLABLE BATTERY".		
- Batteries must be kept upright at all times and packaged as required to prevent short circuits.		
- Transport may require packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs forms/requirements.		
XIV. OTHER INFORMATION		
Canada:		
NPRI and Ontario Regulation 127/01:		
This product contains the following chemicals subject to the reporting requirements of Canada NPRI and/or Ont. Reg. 127/01:		
Chemical	CAS #	%wt
Lead	7439-92-1	71.76
Copper	7440-50-8	<0.1
Sulfuric acid	7664-93-9	16-18
Toxic Substances List:	Lead	
Transport Inventory or Existing Commercial Chemical Substances (EINCS):	All ingredients remaining in the finished product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.	
XVI. OTHER INFORMATION		
DATE ISSUED: September 11, 2013		
OTHER INFORMATION:	Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 241) and 242).	
SOURCES OF INFORMATION:	Distribution into the EU to follow applicable Directives to the U.S. Import/Export of the product as sold.	
	International Agency for Research on Cancer (1987), IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluations of Carcinogenicity. An update of IARC Monographs Volumes 1-42, Supplement 7, Lyon, France.	
	Ontario Ministry of Labor Regulation 654.86, Regulations Respecting Exposure to Chemical or Biological Agents.	
PREPARED BY:	GNB INDUSTRIAL POWER A DIVISION OF EXIDE TECHNOLOGIES 3950 SAUCUS AVENUE AURORA, IL 60504-7932	
VENDEE AND THIRD PERSONS ASSUME THE RISK OF INJURY PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT FOLLOWED AS PROVIDED FOR IN THIS DATA SHEET, AND VENDOR SHALL NOT BE LIABLE FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE PROCEDURES ARE FOLLOWED.		
ALL PERSONS USING THIS PRODUCT, ALL PERSONS WORKING IN AN AREA WHERE THIS PRODUCT IS USED, AND ALL PERSONS HANDLING THIS PRODUCT SHOULD BE FAMILIAR WITH THE CONTENTS OF THIS DATA SHEET. THIS INFORMATION SHOULD BE EFFECTUALLY COMMUNICATED TO EMPLOYEES AND OTHERS WHO MIGHT COME IN CONTACT WITH THE PRODUCT.		
WHILE THE INFORMATION ACCUMULATED AND SET FORTH HEREIN IS BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, EXIDE TECHNOLOGIES MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE FOR THEIR PARTICULAR CIRCUMSTANCES.		
ANY PHOTOCOPIED MUST BE OF THIS ENTIRE DOCUMENT		

CFC CHAPTER 6 COMPLIANCE					
BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED	VOLTAGE	RATED CAPACITY (8 HOUR RATE)	KWh OF SINGLE BATTERY = (RATED CAPACITY) X (VOLTAGE) / 1000	TOTAL KWh = (# OF BATTERIES) X (KWh OF SINGLE BATTERY)
GNB INDUSTRIAL POWER					
MARATHON M12V155FT	8 UNITS	12V	180AH	2.16 KWh = (180Ah) X (12V) / 1000	17.28 KWh = (8) X (2.16 KWh)

From the World Leader in VRLA Battery Technology

Designed for durability in Telecommunications and Electric Utility applications, the GNB Industrial Power Front Terminal MARATHON® series provides high performance and reliability in long duration discharge applications. The location of the terminals on the front (vs. the top) of the battery greatly facilitates the installation and maintenance of the product when placed in a cabinet enclosure or on a standard relay rack tray. The MARATHON® Front Terminal battery series highlights another example of GNB's extensive experience and worldwide leadership in VRLA technology.

"Designed-in" Quality Manufacturing

Quality manufacturing processes for the MARATHON® series batteries incorporate the industry's most advanced technologies including an automated helium leak detection system, a computer controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. Each and every unit is capacity tested.

High Performance MARATHON® Features

- Patented "Diamond Side-Wall" Design maintains structural integrity in higher operating temperatures.
- Durable Flame Retardant Polypropylene Container and Cover complies with UL94 V-0, 28% L.O.I.
- Carry Handles facilitate ease of installation.
- High-Compression Absorbent Glass Mat (AGM) Technology ensures greater than 99% recombination efficiency.
- Integrated Flash Arrestor ultrasonically welded into cover for secure and safe protection.
- 10 Year Design Life in float applications @ 25°C (77°F); 12 year @ 20°C (68°F)
- Superior Lead-Tin-Calcium Positive Alloy helps to resist corrosion.
- Higher Vent Opening Pressure minimizes unnecessary gassing; one-way self resealing device.
- Front Accessible Copper Alloy, 6 mm, Female Terminals ensures low resistance, high integrity connections.
- "Easy On/ Easy Off" Terminal Post Protector provides added safety.
- Post Design accommodates voltage/diagnostic probes.
- Footprint Ready fits in all standard 23" Relay Rack Applications.
- Compliance: Designed in accordance with IEC 60896-21-22
- No Transport Restrictions: Complies with IATA/ICAO Special Provision A67; DOT-CFR Title 49; IMDG Amendment 34-08

Applications

MARATHON® Batteries incorporate GNB's advanced VRLA technology designed for long life and high performance in:

- Telecommunications
- Distributed Power
- PCS
- Cellular
- Broadband

Electric Utility

- Switchgear Control Power
- Communications

UPS

- Industrial Long Duration

UL Recognized Component

MARATHON® Front Terminal Specifications

Model Number	Voltage	Capacity (Ah)		Nominal Dimensions						Nominal Weight	
		1hr To 1.75 VPC @ 25°C	1hr To 1.80 VPC @ 25°C	Inches			Millimeters				
M12V90FT	12	86	86	15.55	4.13	10.63	395	105	270	70	31.5
M12V105FT	12	104	100	20.12	4.33	9.38	511	110	238	79	35.8
M12V125FT	12	125	121	22.00	4.90	11.15	559	124	283	105	47.6
M12V155FT	12	155	150	22.00	4.90	11.15	559	124	283	119	53.8
M12V180FT	12	180	175	22.00	4.90	12.50	559	124	318	133	60.0

MARATHON® Front Terminal Electrical Data

Model Number	Short Circuit Current Amps	Internal Resistance (mΩ)
M12V90FT	2358	4.5
M12V105FT	3125	4.0
M12V125FT	3814	3.2
M12V155FT	3883	3.0
M12V180FT	4147	3.0

Float Voltage & Charging

Constant Voltage charging is recommended

Recommended float voltage: 2.21 VPC @ 25°C (77°F)

Float Voltage Range: 2.25 to 2.30 VPC @ 25°C (77°F)

Equalize voltage: 2.30 VPC or 2.40 VPC for 12 Hours

NOTE: Design and/or specifications subject to change without notice. If questions arise, contact your local GNB sales representative for clarification.

ARCHITECTURAL GROUP

Borges

borgesarch.com

1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE, CA 95661

916 782 7200
916 773 3037 FAX

J5

INFRASTRUCTURE PARTNERS

1150 BAILENA BLVD, #259
ALAMEDA, CA 94501

5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

REV	DATE	DESCRIPTION
G	05/21/19	100% ZD REV 3
F	05/03/19	100% ZD REV 2
E	12/13/18	PLAN CHECK COMMENTS
D	12/05/18	100% ZD REV 1
C	09/24/18	100% ZD SUBMITTAL
B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL

STAMP

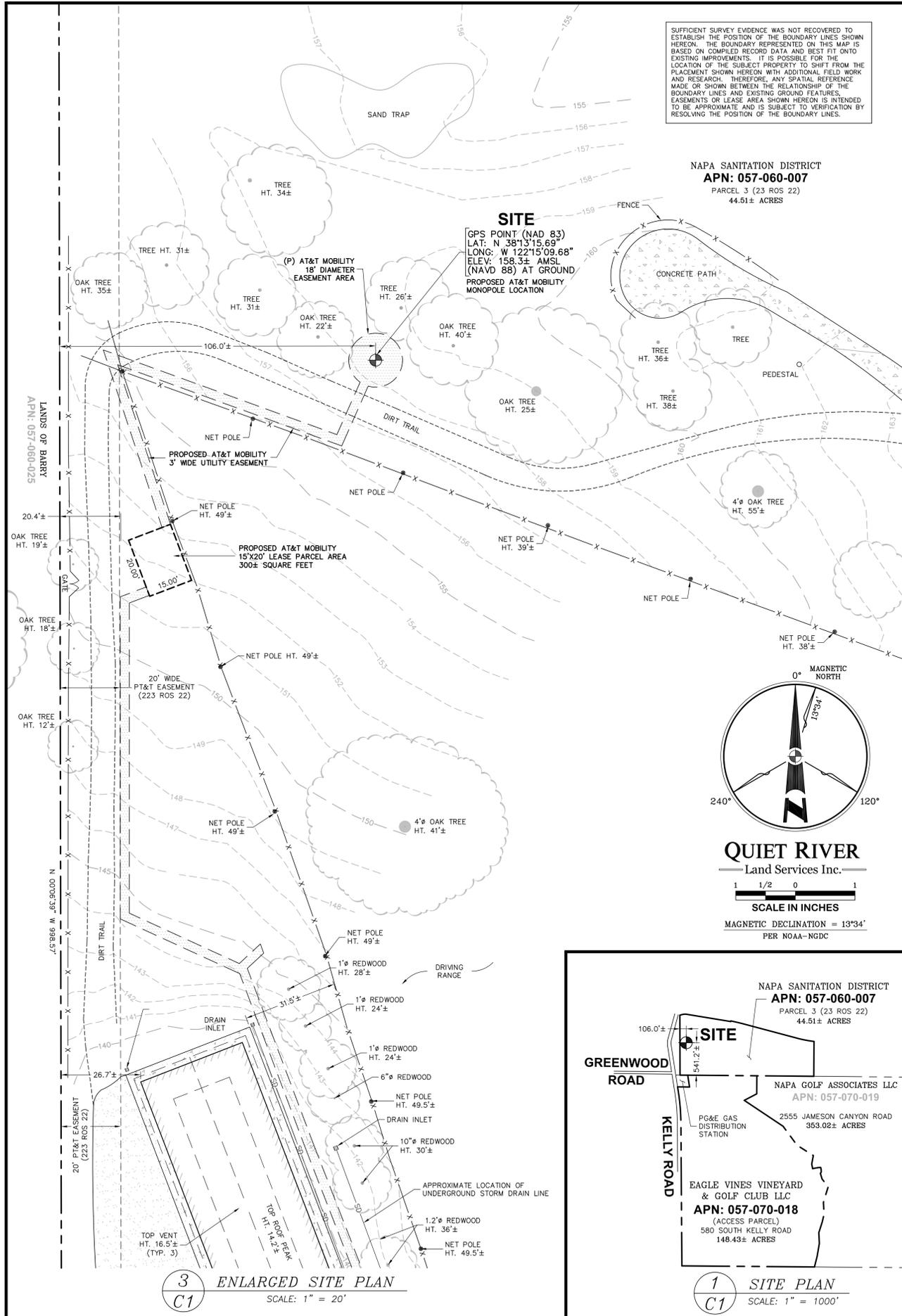
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CHECK BY: M.T.D.

SHEET TITLE

BATTERY SPECIFICATIONS

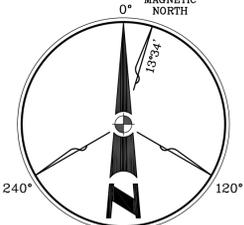
SHEET NO.



SUFFICIENT SURVEY EVIDENCE WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE, ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA SHOWN HEREON IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.

NAPA SANITATION DISTRICT
APN: 057-060-007
PARCEL 3 (23 ROS 22)
44.51± ACRES

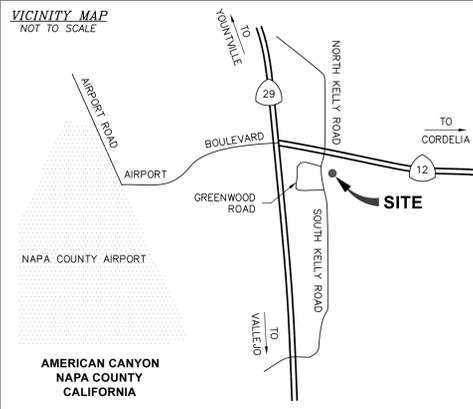
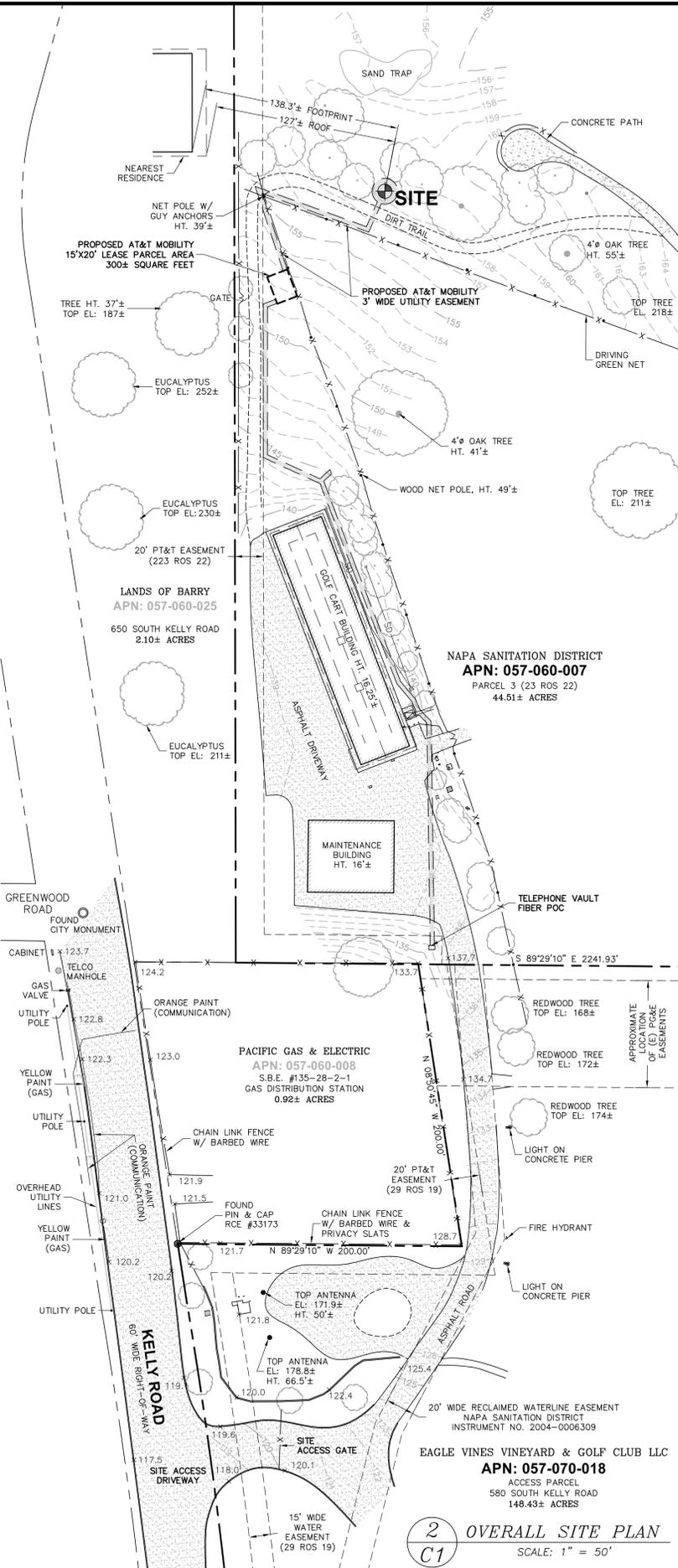
SITE
GPS POINT (NAD 83)
LAT: N 38°13'15.69"
LONG: W 122°15'09.68"
ELEV: 158.32± AMSL
(NAVD 88) AT GROUND
PROPOSED AT&T MOBILITY
MONOPOLE LOCATION



NAPA SANITATION DISTRICT
APN: 057-060-007
PARCEL 3 (23 ROS 22)
44.51± ACRES

NAPA GOLF ASSOCIATES LLC
APN: 057-070-019
2555 JAMESON CANYON ROAD
353.02± ACRES

EAGLE VINES VINEYARD & GOLF CLUB LLC
APN: 057-070-018
(ACCESS PARCEL)
580 SOUTH KELLY ROAD
148.43± ACRES



PROPERTY INFORMATION

Owner: NAPA SANITATION DISTRICT
Address: 1515 SOSCOL FERRY ROAD
NAPA, CA 94558

Site: CCL03781 / EAGLE VINES GOLF CLUB
Address: 580 SOUTH KELLY ROAD
AMERICAN CANYON, CA 94503

Assessor's Parcel Number: 057-060-007
Height of Building/Tower: N/A

Title Report:
NO TITLE REPORT FURNISHED. EXCEPTIONS TO THE TITLE AND RESERVATIONS THEREFROM COULD NOT BE DETERMINED. BOUNDARY INFORMATION SHOWN IS COMPILED FROM AVAILABLE RECORD DATA.

Legal Description:
PROPERTY SITUATED IN THE CITY OF AMERICAN CANYON, COUNTY OF NAPA, STATE OF CALIFORNIA, BEING PARCEL 3 OF RECORD OF SURVEY MAP FILED FOR RECORD IN BOOK 23 OF MAPS AT PAGE 22, RECORDS OF SAID COUNTY.

FEMA FLOOD ZONE DESIGNATION National Flood Insurance Program

County: NAPA Effective Date: AUGUST 3, 2016
Community-Panel Number: 06055C-0607-F
The Flood Zone Designation for this site as plotted by scale is:

ZONE X (no shading) - Areas of minimal flood hazard.

SURVEY DATA

NAD 83 Datum
Lat: N 38°13'15.69" Long: W 122°15'09.68"
Datum Base: NAD 83 Equipment Used: CHCX90D-OPUS Receiver
(See Note 2)

Site Ground Elevation: 158.3± AMSL (NAVD88) AT GPS SITE LOCATION.
Basis of Elevation: GLOBAL POSITIONING SYSTEM (GPS)
(SEE NOTE 2)

Basis of Bearings:
RECORD OF SURVEY MAP FILED IN BOOK 29 AT PAGE 19 IN THE RECORDS OF NAPA COUNTY, AND TWO FOUND MONUMENTS AS SHOWN.

Date of Field Survey: MARCH 19, 2019

NOTES

- This is not a boundary survey. This is a specialized topographic map with property lines and easements being a graphic depiction of various information gathered from preliminary title reports, back-up documents of record, maps and available monuments found during the field survey. No property monuments were set. No title research was performed by Quiet River Land Services, Inc.
- The latitude, longitude and elevation shown hereon were derived from post-processed L1/L2 data collected using Novstar Global Positioning System (GPS) and a CHCX90D-OPUS Receiver. CHC Navigation specifications report decimeter level accuracy (horizontally) when data is properly collected and processed. (Elevation = ±3.0 feet.)
- Unless otherwise noted, no underground utility locating service company was contacted prior to this map being prepared; therefore, there may be non-visible or obscure utilities existing on the property not shown on this map - so CALL BEFORE YOU DIG.
- Any electronic digital media provided by Quiet River Land Services, Inc. to our client is a courtesy and is not to be reproduced, distributed, sold, altered, revised, edited or amended without the express written consent of an Officer of Quiet River Land Services, Inc. Further, only the final stamped, signed and dated original "hard copy" version of our survey or map is considered to be our legally recognized product.

SURVEYOR'S STATEMENT

I, the undersigned, a Registered Professional Land Surveyor licensed under the laws of the State of California do hereby state that the information, measurements, easements, record boundary lines, bearings and distances as shown hereon are based upon a field survey as dated above and upon items of public record and data contained in a title report, as reference. Furthermore, the Latitude and Longitude coordinates are reported in NAD 83 Datum and are accurate to within ±15 feet horizontally, and the ground elevation, reported in NAVD 1988 Datum, is within ±3 feet vertically. The coordinate values and elevations are within the 1-A Accuracy Code designation as listed in the A.S.A.C. Information Sheet 91:003 and are accurate to the best of my knowledge and belief.

[Signature]
5/6/19
DATE

LEGEND

APN:	ASSESSOR'S PARCEL NUMBER	ASPHALT
CP:	CONTROL POINT	CONCRETE
EL:	ELEVATION	CONTROL POINT
FH:	FIRE HYDRANT	CONTROL POINT
FND:	FOUND	FOUND MONUMENT
HT:	HEIGHT	GPS POINT
MON:	MONUMENT	MONUMENT TO MONUMENT
(M-M):	MONUMENT TO MONUMENT	P 15.3 R 12.3
P.O.B:	POINT OF BEGINNING	PARAPET/ROOF ELEVATIONS
P.O.C:	POINT OF COMMENCEMENT	× 12.3
PP:	POWER POLE	SPOT ELEVATION
(TYP.):	TYPICAL	TEMPORARY BENCHMARK

DATE: MAY 6, 2019

DRAWN BY: MAS

FILE NO.: J5IP1901

REVISIONS

DATE	DESCRIPTION	INITIAL
03/22/19	90% ISSUE	MAS
04/26/19	100% ISSUE	RO
05/06/19	REVISE UTILITY EASE.	RO

at&t
AT&T MOBILITY
5001 Executive Parkway
San Ramon, CA 94583

QUIET RIVER
Land Services Inc.

6747 Sierra Court, Suite K
Dublin, CA 94568
(925) 734-6788 Phone

EXISTING SITE CONDITIONS

CCL03781
EAGLE VINES GOLF CLUB

580 SOUTH KELLY ROAD
AMERICAN CANYON, CA 94503

C1
OF 1 SHEET



REV	DATE	DESCRIPTION
G	05/21/19	100% ZD REV 3
F	05/03/19	100% ZD REV 2
E	12/13/18	PLAN CHECK COMMENTS
D	12/05/18	100% ZD REV 1
C	09/24/18	100% ZD SUBMITTAL
B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL

STAMP

DRAWN BY: DAG PROJECT NO.: T-16501-9

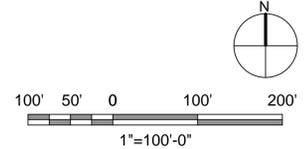
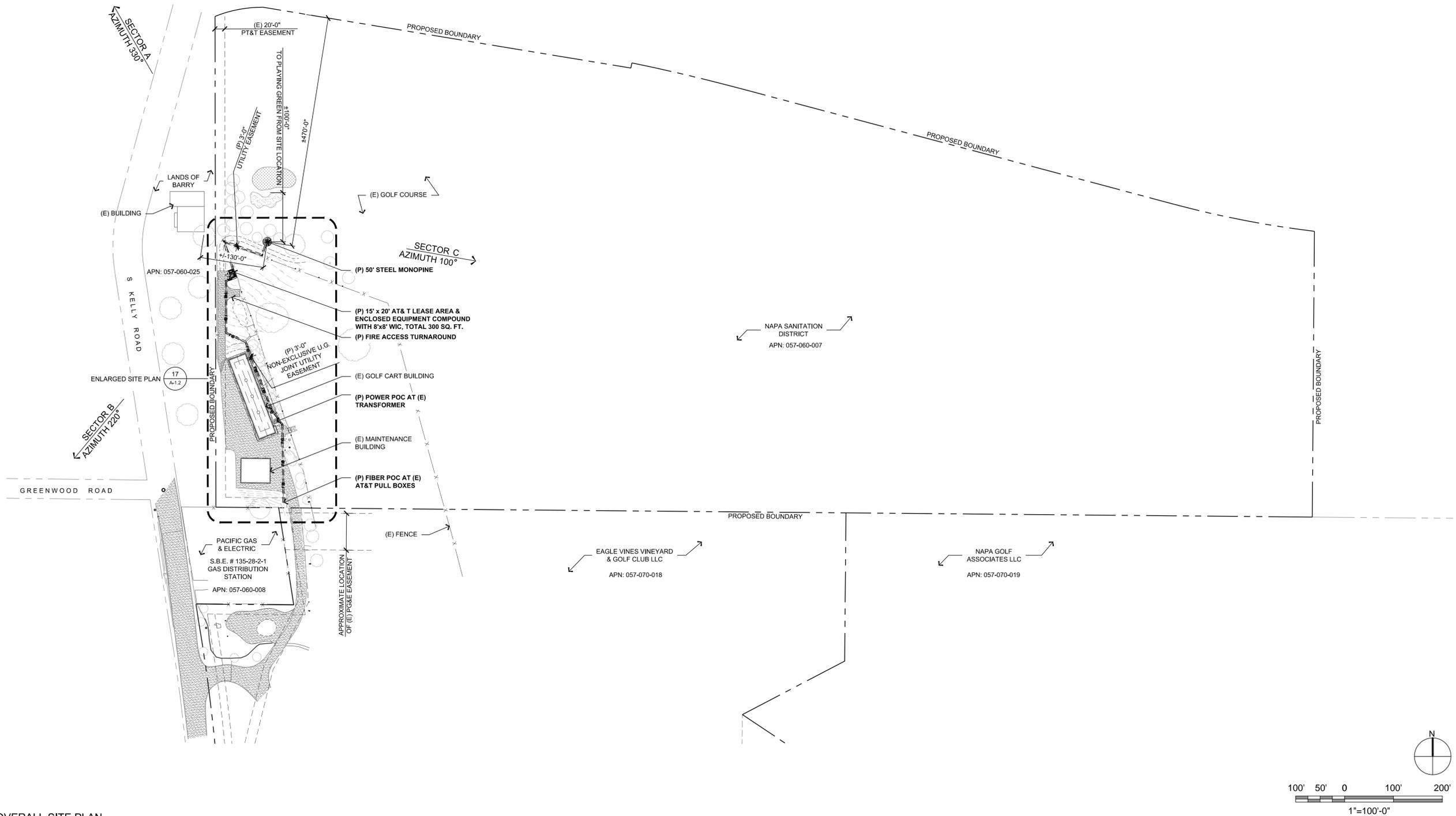
CHECK BY: M.T.D.

SHEET TITLE

OVERALL SITE PLAN

SHEET NO.

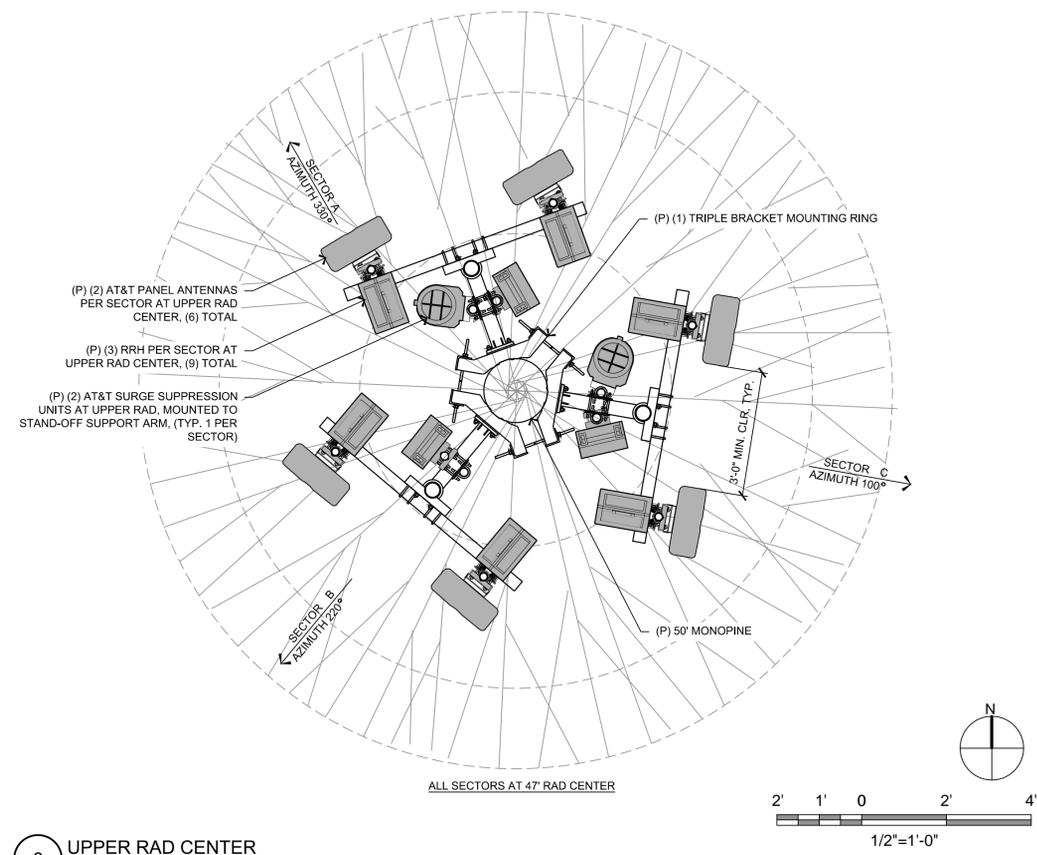
A-1.1



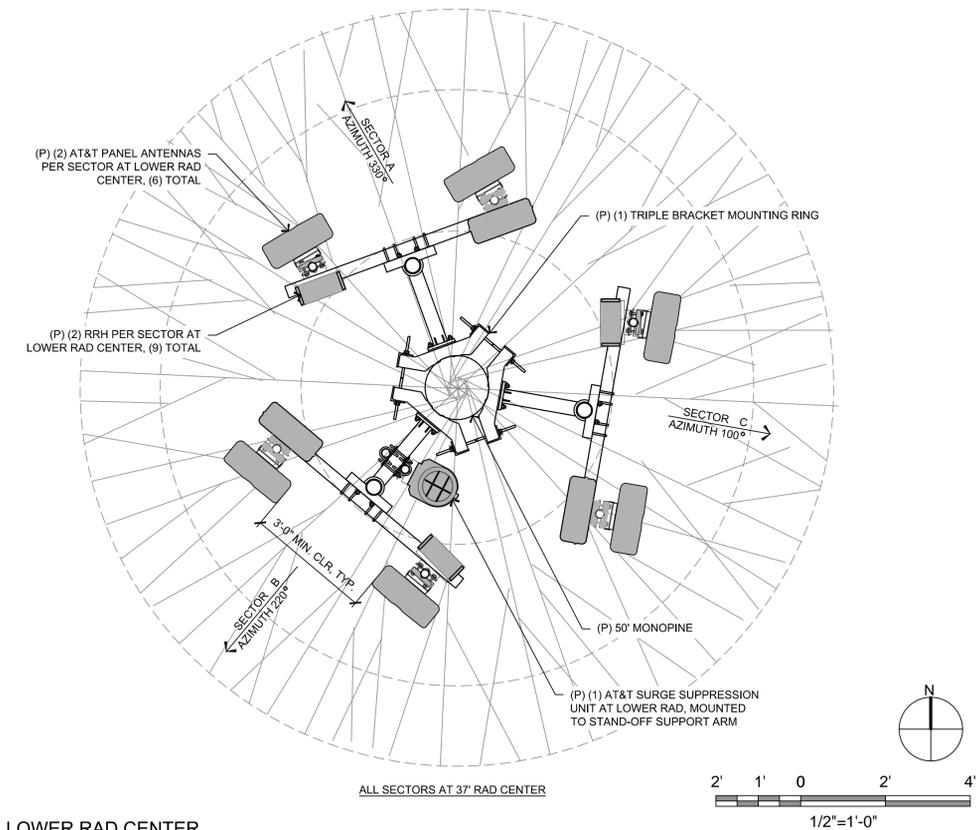
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REV	DATE	DESCRIPTION
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F	05/03/19	100% ZD REV 2
E	12/13/18	PLAN CHECK COMMENTS
D	12/05/18	100% ZD REV 1
C	09/24/18	100% ZD SUBMITTAL
B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL



6 UPPER RAD CENTER
1/2" = 1'-0"



5 LOWER RAD CENTER
1/2" = 1'-0"

RF SCHEDULE									
SECTOR	ANTENNA MODEL NO.	AZIMUTH	RAD CENTER	RRH	TMA	FIBER LENGTH	COAX LENGTH	COAX DIA.	
A L P H A	A1	COMMSCOPE NNHH-65B-R4	330° ± 47'-0"	(2) RRH	NA	±230'-0"	±15'-0"	1/2"	
	A2	COMMSCOPE NNHH-65B-R4	330° ± 47'-0"	(1) RRH	NA	±230'-0"	±15'-0"	1/2"	
	A3	COMMSCOPE NNHH-65B-R4	330° ± 37'-0"	(2) RRH	NA	±220'-0"	±15'-0"	1/2"	
	A4	COMMSCOPE NNHH-65B-R4	330° ± 37'-0"			±220'-0"	±15'-0"	1/2"	
B E T A	B1	COMMSCOPE NNHH-65B-R4	220° ± 47'-0"	(2) RRH	NA	±230'-0"	±15'-0"	1/2"	
	B2	COMMSCOPE NNHH-65B-R4	220° ± 47'-0"	(1) RRH	NA	±230'-0"	±15'-0"	1/2"	
	B3	COMMSCOPE NNHH-65B-R4	220° ± 37'-0"	(2) RRH	NA	±220'-0"	±15'-0"	1/2"	
	B4	COMMSCOPE NNHH-65B-R4	220° ± 37'-0"			±220'-0"	±15'-0"	1/2"	
G A M M A	C1	COMMSCOPE NNHH-65B-R4	100° ± 47'-0"	(2) RRH	NA	±230'-0"	±15'-0"	1/2"	
	C2	COMMSCOPE NNHH-65B-R4	100° ± 47'-0"	(1) RRH	NA	±230'-0"	±15'-0"	1/2"	
	C3	COMMSCOPE NNHH-65B-R4	100° ± 37'-0"	(2) RRH	NA	±220'-0"	±15'-0"	1/2"	
	C4	COMMSCOPE NNHH-65B-R4	100° ± 37'-0"			±220'-0"	±15'-0"	1/2"	

8 AT&T RF SCHEDULE
NOT TO SCALE

STAMP

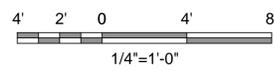
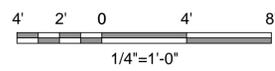
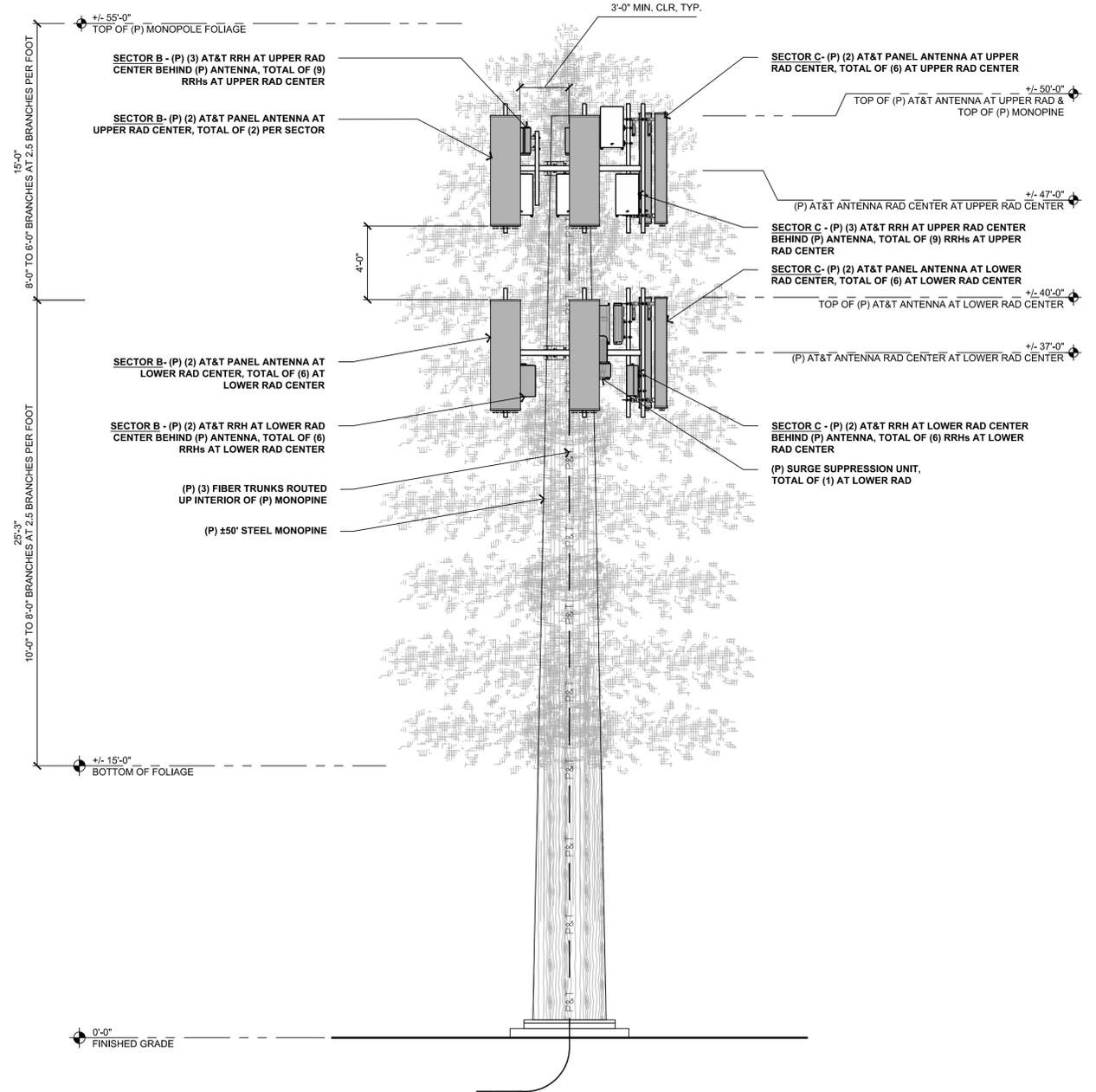
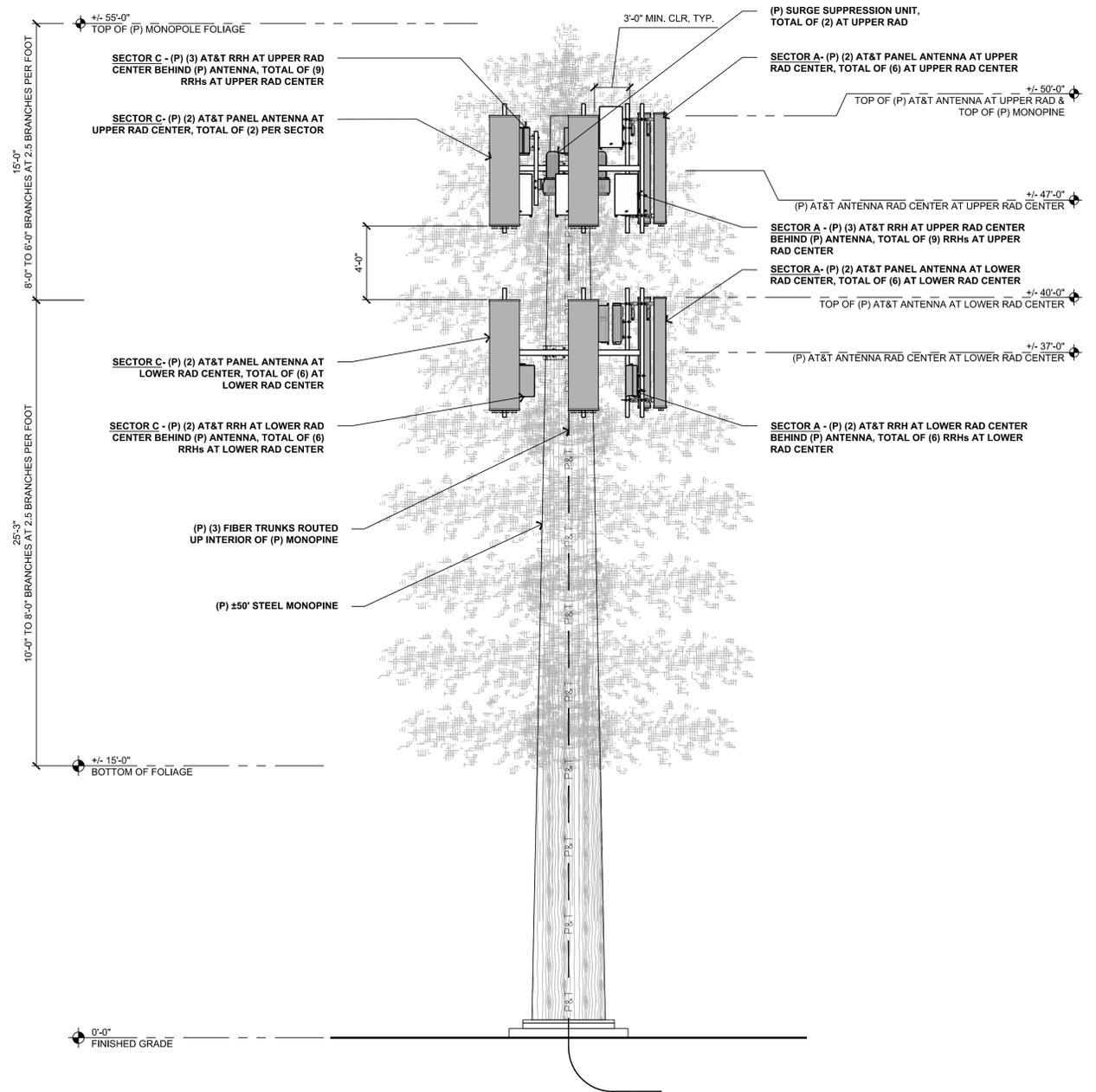
DRAWN BY: DAG PROJECT NO.: T-16501-9
CHECK BY: M.T.D.
SHEET TITLE

**ENLARGED
ANTENNA PLANS**

SHEET NO.

NOTE:
 (P) ANTENNAS & RRU'S TO BE COVERED WITH "SOCKS" UNLESS OTHERWISE SPECIFIED
 BRANCHES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. NOT TO SCALE

NOTE:
 (P) ANTENNAS & RRU'S TO BE COVERED WITH "SOCKS" UNLESS OTHERWISE SPECIFIED
 BRANCHES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. NOT TO SCALE



17 PROPOSED NORTH ELEVATION - MONOPINE
 1/4" = 1'-0"

9 PROPOSED SOUTH ELEVATION - MONOPINE
 1/4" = 1'-0"



REV	DATE	DESCRIPTION
G	05/21/19	100% ZD REV 3
F	05/03/19	100% ZD REV 2
E	12/13/18	PLAN CHECK COMMENTS
D	12/05/18	100% ZD REV 1
C	09/24/18	100% ZD SUBMITTAL
B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL

STAMP

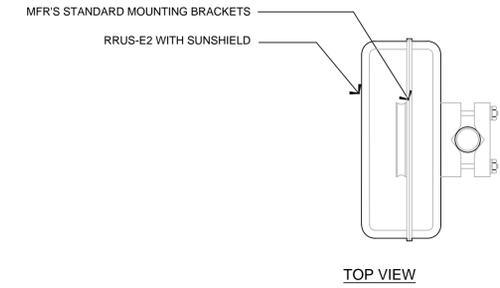
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 CHECK BY: M.T.D.
 SHEET TITLE

ELEVATIONS

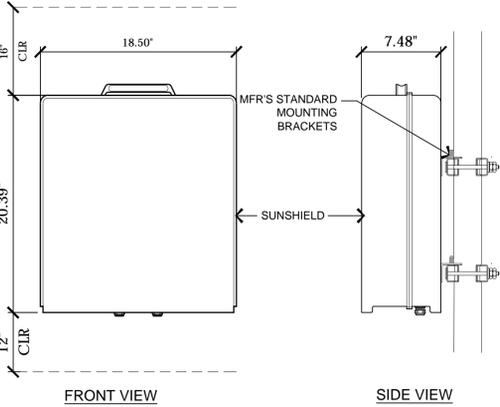
SHEET NO.

ERICSSON RRUS-E2 REMOTE RADIO UNIT

COLOR: GRAY
 DIMENSIONS: 20.39" TALL X 18.50" WIDE X 7.48" DEEP (INCLUDING SUNSHIELD)
 WIEGHT: +/- 53 LBS. (INCLUDING MOUNTING HARDWARE)



TOP VIEW



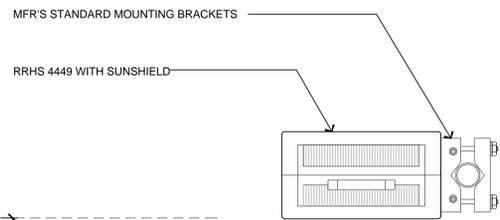
FRONT VIEW

SIDE VIEW

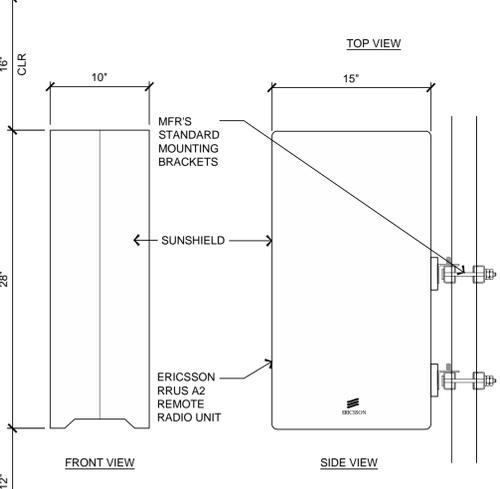
19 ERICSSON RRUS-E2
 1 1/2" = 1'-0"

ERICSSON RRUS4449 REMOTE RADIO UNIT

COLOR: WHITE
 DIMENSIONS: 28" TALL X 15" WIDE X 10" DEEP (INCLUDING SUNSHIELD)
 WIEGHT: +/- 85 LBS. (INCLUDING MOUNTING HARDWARE)



TOP VIEW



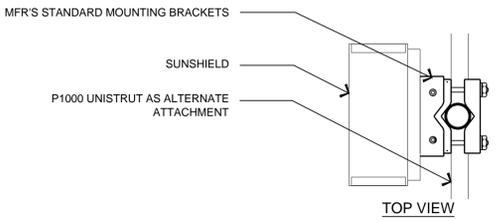
FRONT VIEW

SIDE VIEW

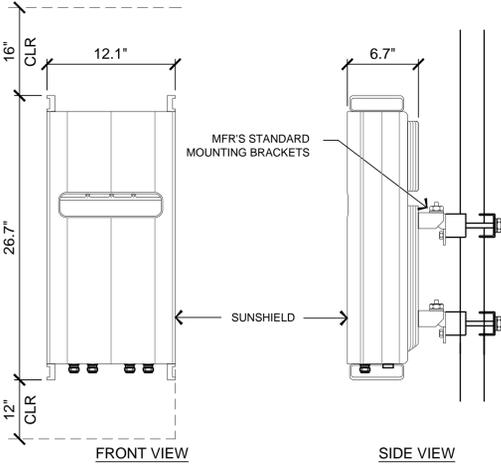
17 ERICSSON RRUS4449
 1 1/2" = 1'-0"

ERICSSON RRUS32

MODEL: RRUS32
 COLOR: WHITE
 DIMENSIONS: 26.7" TALL X 12.1" WIDE X 6.7" DEEP (INCLUDING SUNSHIELD)
 WIEGHT: +/- 69 LBS. (INCLUDING MOUNTING HARDWARE)



TOP VIEW



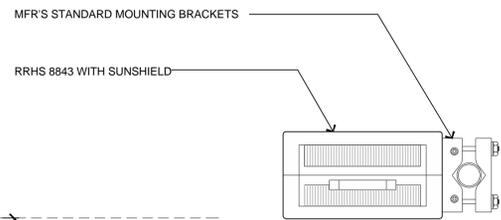
FRONT VIEW

SIDE VIEW

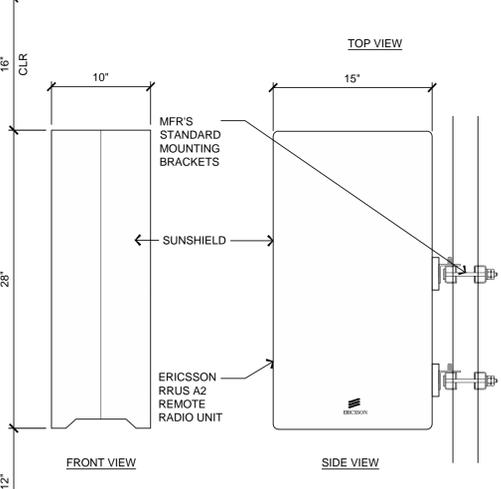
15 ERICSSON RRUS-32
 1 1/2" = 1'-0"

ERICSSON RRUS8843 REMOTE RADIO UNIT

COLOR: WHITE
 DIMENSIONS: 28" TALL X 15" WIDE X 10" DEEP (INCLUDING SUNSHIELD)
 WIEGHT: +/- 85 LBS. (INCLUDING MOUNTING HARDWARE)



TOP VIEW



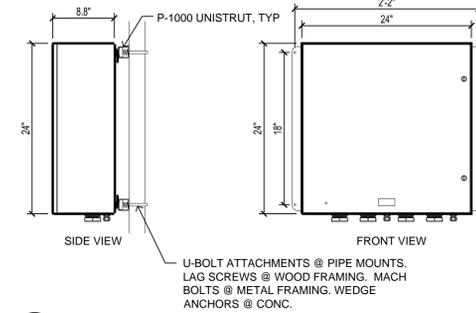
FRONT VIEW

SIDE VIEW

13 ERICSSON RRUS8843
 1 1/2" = 1'-0"

RAYCAP DC12-48-60-0-25E FIBER DC POWER CONNECTION

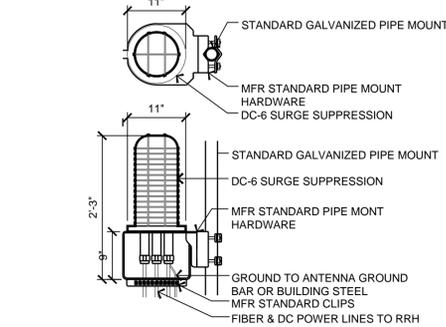
COLOR: LIGHT TAN
 DIMENSIONS: 24" WIDE X 24" TALL X 8.8" DEEP
 WIEGHT: +/- 56.3 LBS. (INCLUDING MOUNTING HARDWARE)



12 DC12 POWER CONNECTION
 1" = 1'-0"

RAYCAP DC6-48-60-18-8F SURGE SUPPRESSION

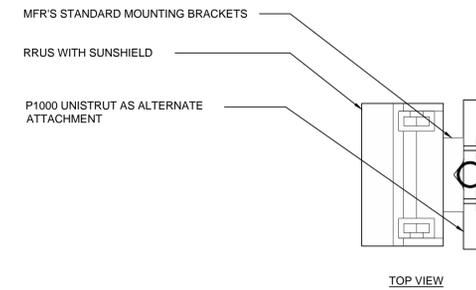
COLOR: BLACK/SILVER
 DIMENSIONS: 11" DIA X 27" TALL W/ 9" BASE
 WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



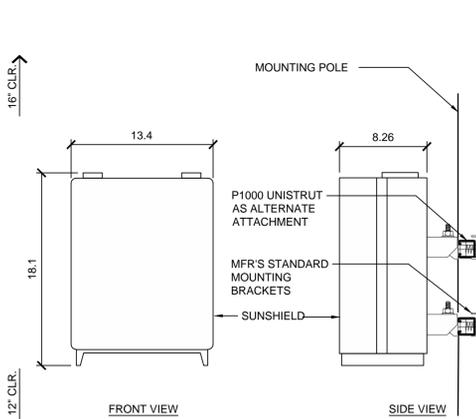
11 DC SURGE SUPPRESSION UNIT
 3/4" = 1'-0"

ERICSSON RRUS 4478 B14 REMOTE RADIO UNIT

COLOR: WHITE
 DIMENSIONS: 18.1" TALL X 13.4" WIDE X 8.26" DEEP (INCLUDING SUNSHIELD)
 WIEGHT: +/- 59.4 LBS. (EXCLUDING MOUNTING HARDWARE)



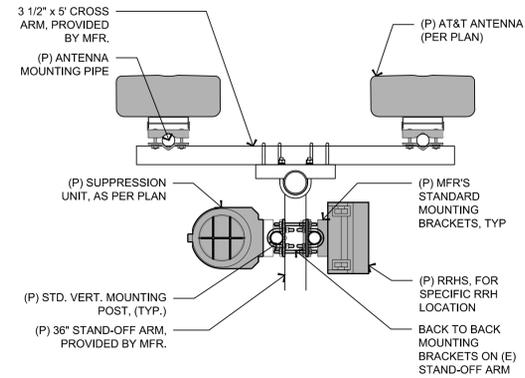
TOP VIEW



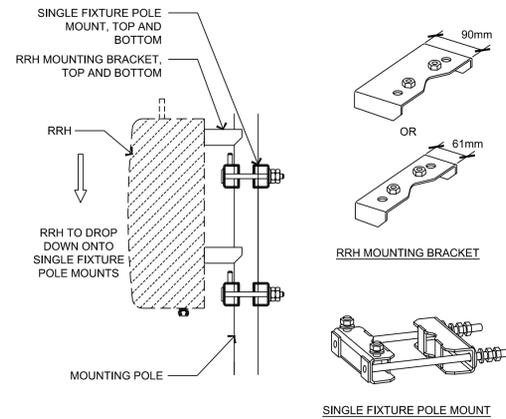
FRONT VIEW

SIDE VIEW

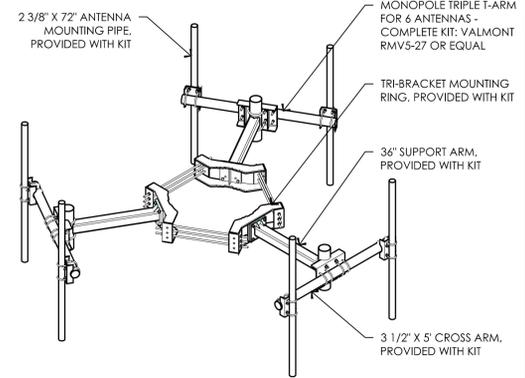
9 ERICSSON RRUS 4478
 1 1/2" = 1'-0"



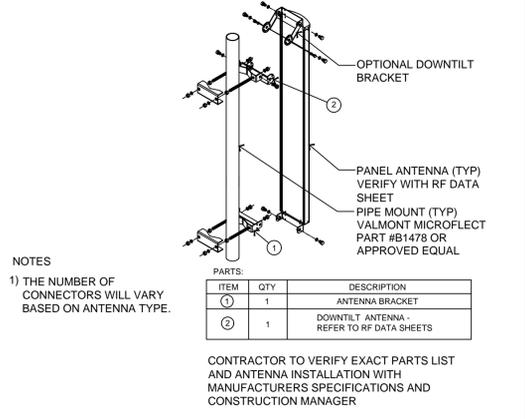
8 STAND-OFF ARM MOUNTING DETAIL
 3/4" = 1'-0"



7 RRH MOUNTING DETAIL - POLE
 3/4" = 1'-0"

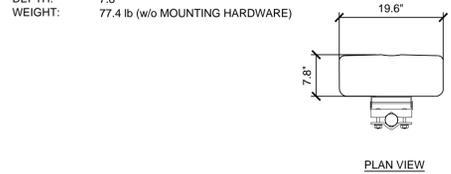


4 MONOPOLE T-ARM MOUNTING FRAME
 3/8" = 1'-0"

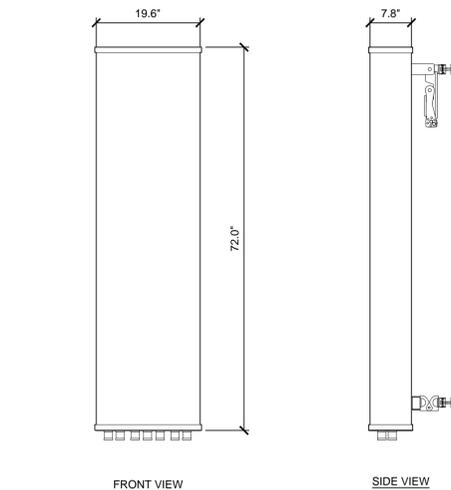


3 ANTENNA MOUNT DETAIL
 3/4" = 1'-0"

ANTENNA: COMMSCOPE NNHH-65B-R4
 HEIGHT: 72.0"
 WIDTH: 19.6"
 DEPTH: 7.8"
 WEIGHT: 77.4 lb (w/o MOUNTING HARDWARE)



PLAN VIEW



FRONT VIEW

SIDE VIEW

1 ANTENNA DETAIL - COMMSCOPE NNHH-65A-R4
 3/4" = 1'-0"

REV	DATE	DESCRIPTION
G	05/21/19	100% ZD REV 3
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B	09/10/18	90% ZD REV 1
A	04/10/18	90% ZD SUBMITTAL

STAMP

DRAWN BY: DAG PROJECT NO.: T-16501-9

CHECK BY: M.T.D.

SHEET TITLE

**EQUIPMENT
 DETAILS**

SHEET NO.

SD030 | 2.4L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



STANDBY POWER RATING
30 kW, 38 kVA, 60 Hz

PRIME POWER RATING*
27 kW, 34 kVA, 60 Hz



*Built in the USA using domestic and foreign parts
**EPA Certified Prime ratings are not available in the U.S. or its Territories.
***Certain options or customization may not hold certification valid.

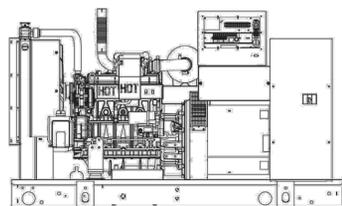


Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:

UL2200, UL508, UL142, UL498

NFPA70, 99, 110, 37

NEC700, 701, 702, 708

ISO9001, 8528, 3046, 7637, Pluses #2b, 4

NEMA ICS10, MG1, 250, ICS6, A81

ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with 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's 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 application under adverse conditions.

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

SD030 | 2.4L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator Duct Adapter (open set only)

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
- 120 VAC Coolant Heater

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL200 Enclosure**
- 12 leads (3-phase, non 600 V)
- Class H insulation material
- Vented rotor
- 2/3 pitch
- Skewed stator
- Auxiliary voltage regulator power winding
- Amortisseur winding
- Brushless Excitation
- Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced (get tolerance)
- Full load capacity alternator
- Protective thermal switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Silencer Heat Shield
- Wrapped Exhaust Piping
- Silencer housed in discharge hood (enclosed only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated Units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- Check valve in supply and return lines
- Rhino Coat™ - Textured polyester powder coat
- Stainless hardware

CONTROL SYSTEM



Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)

- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isosynchronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not In Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA 10 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- 2-Wire Start Compatible
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Cooling System	
Make	Generac	Cooling System Type	Closed Recovery
EPA Emissions Compliance	Stationary Emergency	Water Pump	Pre-Lubed, Self Sealing
EPA Emissions Reference	See Emissions Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed (rpm)	2600
Type	In-Line	Fan Diameter mm (in)	560 (22)
Displacement - L (cu in)	2.4 (146.46)	Coolant Standard Wattage	1500
Bore - mm (in)	90 (3.54)	Coolant Heater Standard Voltage	120 VAC
Stroke - mm (in)	94 (3.70)		
Compression Ratio	21.3:1		
Intake Air Method	Turbocharged		
Cylinder Head Type	Cast Iron		
Piston Type	Aluminum		
Engine Governing		Fuel System	
Governor	Electronic Isosynchronous	Fuel Type	Ultra Low Sulfur Diesel Fuel
Frequency Regulation (Steady State)	+/- 0.25%	Fuel Specifications	ASTM
		Fuel Filtering (microns)	5
		Fuel Injection	Distribution Injection Pump
		Fuel Pump Type	Engine Driven Gear
		Injector Type	Mechanical
		Fuel Supply Line mm (in)	7.94 (0.31)
		Fuel Return Line mm (in)	7.94 (0.31)
Lubrication System		Engine Electrical System	
Oil Pump Type	Gear	System Voltage	12 VDC
Oil Filter Type	Full Flow	Battery Charging Alternator	Std
Crankcase Capacity - L (qt)	6.2 (6.52)	Battery Size	See Battery Index 016197058BY
		Battery Voltage	12 VDC
		Ground Polarity	Negative
ALTERNATOR SPECIFICATIONS			
Standard Model	390	Standard Excitation	Synchronous
Poles	4	Bearings	Single Sealed Cartridge
Field Type	Revolving	Coupling	Direct, Flexible Disc
Insulation Class - Rotor	H	Load Capacity - Standby	100%
Insulation Class - Stator	H	Prototype Short Circuit Test	Yes
Total Harmonic Distortion	<5%	Voltage Regulator Type	Digital
Telephone Interference Factor (TIF)	<50	Number of Sensed Phases	All
		Regulation Accuracy (Steady State)	±0.25%

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OPERATING DATA

POWER RATINGS

Single-Phase 120/240 VAC @0.1 Gpf	Standby	
	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.1 Gpf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.1 Gpf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.1 Gpf	30 kW	Amps: 46
Three-Phase 346/600 VAC @0.1 Gpf	30 kW	Amps: 36

STARTING CAPABILITIES (sKVA)

Alternator	kW	480 VAC					208/240 VAC						
		10%	15%	20%	25%	30%	10%	15%	20%	25%	30%		
Standard	35	24	36	48	60	72	84	18	27	36	45	54	63
Upsize 1	40	27	41	54	68	81	95	20	31	41	51	61	71
Upsize 2	50	34	52	69	86	103	120	26	39	52	65	77	90

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft. (m)	Diesel - gph (lph)		
	Percent Load	gph (lph)	
3 (1)	25%	0.92 (3.5)	
	50%	1.45 (5.5)	
	75%	1.96 (7.4)	
	100%	2.74 (10.4)	

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

COOLING

Coolant Flow per Minute	Standby	
	gpm (lpm)	10 (38)
Coolant System Capacity	gal (L)	2.8 (10.95)
Heat Rejection to Coolant	BTU/hr	111,000
Inlet Air	cfm (m3/hr)	4,500 (7647)
Max. Operating Radiator Air Temp	F° (C°)	122 (50)
Max. Ambient Temperature (before derate)	F° (C°)	104 (40)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

Flow at Rated Power	Standby	
	cfm (m3/min)	90 (2.55)

ENGINE

Rated Engine Speed	Standby	
	rpm	1800
Horsepower at Rated kW**	hp	49
Piston Speed	ft/min (m/min)	1110 (338)
BMEP	psi	153

EXHAUST

Exhaust Flow (Rated Output)	Standby	
	cfm (m ³ /min)	230 (91)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output)	F° (C°)	850 (484)
Exhaust Outlet Size (Open Set)	mm (in)	63.5 (2.5)

** Refer to "Emissions Data Sheet" for maximum SFP by EPA and SCQA/M permitting purposes.
Derates - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

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CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Make-Up System
- Oil Heater
- Industrial Exhaust Silencer

Fuel Electrical System

- Fixed fuel lines
- Primary fuel filter

Engine Electrical System

- 10A UL battery charger
- 2.5A UL battery charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical coating
- Permanent Magnet Excitation

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant heater ball valves
- Block Heaters
- Fluid containment pans

ALTERNATOR SYSTEM

- 3rd Breaker Systems

CONTROL SYSTEM

- Spare inputs (x4) / outputs (x4) - H Panel Only
- Battery Disconnect Switch

CIRCUIT BREAKER OPTONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breaker

GENERATOR SET

- Gen-Link Communications Software (English Only)
- 8 Load Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty

ENCLOSURE

- Weather Protected
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Tropical coating
- Aluminum Enclosure
- 150 MPH Wind Kit
- 12 VDC Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

TANKS (Size on Last page)

- Electrical Fuel Level
- Mechanical Fuel Level
- 54 Gal (204.4 L) Usable Capacity
- 132 Gal (498.7 L) Usable Capacity
- 211 Gal (798.7 L) Usable Capacity
- 300 Gal (1135.6 L) Usable Capacity
- 8' Vent Extension
- 13' Vent Extension
- 19' Vent Extension

CONTROL SYSTEM

- 21-Light Remote Annunciator
- Remote Relay Panel (8 or 16)
- Oil Temperature Sender with Indication 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)
- Remote Communication - Modem
- Remote Communication - Ethernet
- 10A Run Relay
- Ground Fault Indication and Protection Functions

TANKS

- Overfill Protection Valve
- UL2085 Tank
- ULC S-601 Tank
- Stainless Steel Tank
- Special Fuel Tanks (MDEO and FL DEP/DERM, etc.)
- Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

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DIMENSIONS AND WEIGHTS*

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)		WT lbs (kg) - Tank & Open Set	
		L	W	Steel	Aluminum
NO TANK	-	76 (1930.4)	38 (914.4)	46 (1168.4)	2060 (934)
20	54 (204.4)	76 (1930.4)	38 (914.4)	59 (1486.6)	2540 (1152)
48	132 (499.7)	76 (1930.4)	38 (914.4)	71 (1803.4)	2770 (1257)
77	211 (798.7)	76 (1930.4)	38 (914.4)	83 (2108.2)	2979 (1351)
109	300 (1135.6)	93 (2362.2)	38 (914.4)	87 (2209.8)	3042 (1380)

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)		WT lbs (kg) - Enclosure Only	
		L	W	Steel	Aluminum
NO TANK	-	95 (2413)	38 (965.2)	50 (1270)	
20	54 (204.4)	95 (2413)	38 (965.2)	63 (1600.3)	
48	132 (499.7)	95 (2413)	38 (965.2)	75 (1905)	302 (137)
77	211 (798.7)	95 (2413)	38 (965.2)	87 (2209.8)	191 (87)
109	300 (1135.6)	95 (2413)	38 (965.2)	91 (2311.4)	

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)		WT lbs (kg) - Enclosure Only	
		L	W	Steel	Aluminum
NO TANK	-	113 (2870.2)	38 (965.2)	56 (1270)	
20	54 (204.4)	113 (2870.2)	38 (965.2)	63 (1600.2)	
48	132 (499.7)	113 (2870.2)	38 (965.2)	75 (1905)	455 (206)
77	211 (798.7)	113 (2870.2)	38 (965.2)	87 (2209.8)	288 (131)
109	300 (1135.6)	113 (2870.2)</			