

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

CONSTRUCTION DRAWING

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 CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2019 CALIFORNIA ADMINISTRATIVE CODE
- 2019 CALIFORNIA BUILDING CODE
- 2019 CALIFORNIA ELECTRIC CODE
- 2019 CALIFORNIA MECHANICAL CODE
- 2019 CALIFORNIA PLUMBING CODE
- 2019 CALIFORNIA FIRE CODE
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY/COUNTY ORDINANCES

HANDICAP REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION AND IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE SECTION 11B-203.5

ENGINEERING

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEEDED.

GENERAL NOTES



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (SOUTH), CALL DIG ALERT TOLL FREE: 1-800-422-4133 OR www.digalert.org CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

Know what's below. Call before you dig.

PROPERTY OWNER: SBA COMMUNICATIONS
ADDRESS: 5900 BROKEN SOUND PKWY. NW BOCA RATON, FL 33487

APPLICANT: AT&T
ADDRESS: 1452 EDINGER AVENUE TUSTIN, CA 92780

APPLICANT REPRESENTATIVE: EUKON GROUP
ADDRESS: 65 POST SUITE 1000 IRVINE, CA 92618

LATITUDE (NAD 83): 38° 34' 56.71" N (38.582420°)
LONGITUDE (NAD 83): 119° 30' 53.21" W (-119.514780°)
LONGITUDE/LATITUDE TYPE: NAD 83
GROUND ELEVATION (NAVD 88): 5338.9'

APN #: 001100050000
ZONING JURISDICTION: MONO COUNTY
OCCUPANCY: U
CONSTRUCTION TYPE: V-B
USE: UNMANNED TELECOMMUNICATIONS FACILITY
LEASE AREA: 475 SQUARE FEET

SITE INFORMATION

PROJECT MANAGER:
AT&T MOBILITY, LA MARKET
1452 EDINGER AVENUE, 3RD FLOOR
TUSTIN, CA 92780
CONTACT: TY LOGAN-BURKS
PHONE: (925) 549-4671
EMAIL: tylogan@att.com

LEASING:
EUKON
65 POST, SUITE 1000
IRVINE, CA 92618
CONTACT: JON SILVA
PHONE: (714) 393-7963
EMAIL: jon.silva@eukongroup.com

RF ENGINEER:
AT&T
1452 EDINGER AVENUE, 3RD FLOOR
TUSTIN, CA 92780
CONTACT: SANDEEP MANGAT
PHONE: (530) 540-4201
EMAIL: sm2840@att.com

A&E CONTACT
EUKON
65 POST, SUITE 1000
IRVINE, CA 92618
CONTACT: RICH BRUNET
PHONE: (866) 55-EUKON
EMAIL: rich.brunet@eukongroup.com

ZONING:
EUKON
65 POST, SUITE 1000
IRVINE, CA 92618
CONTACT: PAUL KIM
PHONE: (949) 394-4803
EMAIL: paul.kim@eukongroup.com

CONSTRUCTION:
QUALTEK WIRELESS
10 PASTEUR, SUITE 100
IRVINE, CA 92618-3815
CONTACT: FERNANDO MARTINEZ
PHONE: (949) 408-8153
EMAIL: fmartinez@qualtekwireless.com

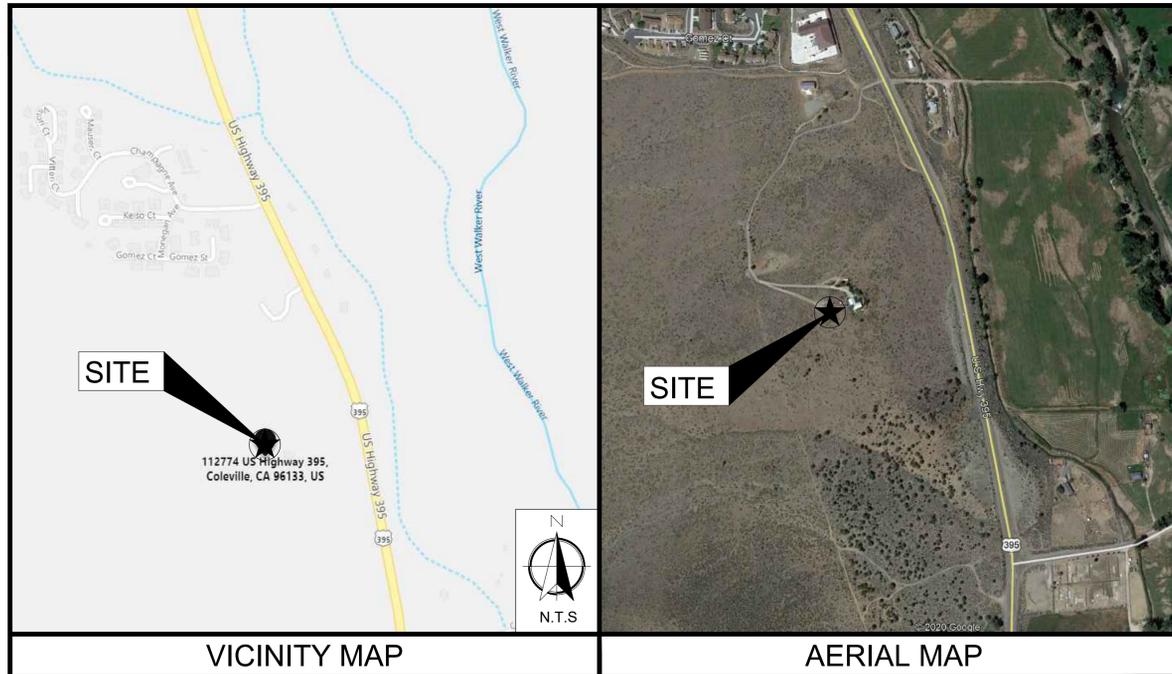
PROJECT TEAM

SITE NUMBER: CSL05779

PACE# MRLOS073890
FA#: 11585752
USID: 295458



PROJECT: NSB + C-BAND
SITE TYPE: COLO - MONOPOLE
SITE ADDRESS: 112775 HWY. 395
COLEVILLE, CA 96107



VICINITY MAP

AERIAL MAP

DIRECTIONS FROM AT&T OFFICE:
1452 EDINGER AVE, TUSTIN, CA 92780

Head southwest toward AT&T. Turn right toward AT&T. Turn left toward AT&T. Turn right onto AT&T. Turn right onto Edinger Ave. Turn left onto the CA-261 N ramp. Keep right at the fork, follow signs for CA 261 N and merge onto CA-261 N. Merge onto CA-261 N. Take the exit on the left onto CA-241 N. Take exit 39A to merge onto the CA-91 E toward riverside. Take exit 51 to merge onto I-15 N toward Barstow. Keep left to stay on I-15 N. Keep left to stay on I-15 N. Take exit 141 for U.S. 395 toward Bishop/Adelanto. Continue onto U.S. 395 N. Turn left. Keep right. End at site.

DRIVING DIRECTIONS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

APPROVED BY:	INITIALS:	DATE:
AT&T RF ENGINEER:		
AT&T OPERATIONS:		
SITE ACQUISITION MANAGER:		
PROJECT MANAGER:		
ZONING VENDOR:		
LEASING VENDOR:		
CONSTRUCTION MANAGER:		
A/E MANAGER:		
PROPERTY OWNER:		

APPROVALS

AT&T WIRELESS PROPOSES TO CONSTRUCT A WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- OUTDOOR EQUIPMENT
- INSTALL 10'-2" POLE EXTENSION
- INSTALL (6) PANEL ANTENNAS
- INSTALL (15) REMOTE RADIO UNITS (RRU) WITHIN NEW LEASE AREA
- INSTALL (12) TRIPLEXERS
- INSTALL (12) TMA
- INSTALL (3) DC12 SURGE SUPPRESSORS WITHIN NEW LEASE AREA
- INSTALL (1) 20kW BACK-UP POWER GENERATOR W/ 92 gal TANK WITHIN NEW LEASE AREA
- INSTALL (1) POWER CABINET
- INSTALL (2) PURCELL CABINETS
- INSTALL (1) UTILITY TRENCH
- INSTALL (1) CABLE BRIDGE
- INSTALL (1) HOFFMAN BOX
- INSTALL (2) 8' WIDE DUAL SWINGING CHAIN-LINK GATES

PROJECT DESCRIPTION

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SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DO NOT SCALE DRAWINGS

APPLICANT:



1452 EDINGER AVENUE,
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:



65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

DRAWN BY: FG/AG
CHECKED BY: AG

REVISIONS:

REV	DATE	DESCRIPTION
8	09/06/2022	RF COMMENTS
7	08/29/2022	RAD CENTER REVISION
6	07/20/2022	SBA COMMENTS
5	03/09/2022	ANTENNA MOUNTING
4	11/30/2021	100% CONSTRUCTION DRAWING
3	06/17/2021	ANTENNA CHANGE
2	05/28/2021	UPDATED STRUCTURAL
1	03/22/2021	REVISED FIBER PLAN
0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

NOT FOR CONSTRUCTION

PROJECT INFORMATION:

CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

	NEW ANTENNA		GROUT OR PLASTER		UNDERGROUND TELCO RUN		5/8" X 10'-0" .CU. GND ROD IN TEST WELL 30" MIN. BELOW GRADE.
	EXISTING ANTENNA		(E) BRICK		GROUNDING CONDUCTOR		CHEMICAL GROUND ROD (XIT GROUND ROD)
	GROUND ROD		(E) MASONRY		GROUNDING CONDUCTOR		CADWELD CONNECTION
	GROUND BUS BAR		CONCRETE		GROUNDING CONDUCTOR		MECHANICAL CONNECTION
	MECHANICAL GRND. CONN.		EARTH		GROUNDING CONDUCTOR		HALO GROUND CONNECTION
	CADWELD		GRAVEL		CONDUIT UNDERGROUND		CIRCUIT BREAKER
	GROUND ACCESS WELL		PLYWOOD		FUSE, SIZE AND TYPE AS INDICATED.		UTILITY METER BASE
	ELECTRIC BOX		SAND		SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB		TRANSFORMER
	TELEPHONE BOX		WOOD CONT.		MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE		STEPDOWN TRANSFORMER
	LIGHT POLE		WOOD BLOCKING		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T		RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362
	FND. MONUMENT		STEEL		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T		TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
	SPOT ELEVATION		CENTERLINE		LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121		TOGGLE SWITCH, 1P-120V-15A, "WP"
	SET POINT		PROPERTY/LEASE LINE		EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB		IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO. 7100F
	REVISION		MATCH LINE		EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HE6-50-2-R91		POLE
	GRID REFERENCE		WORK POINT		LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1		(N) POLE MOUNTED XFMR
	DETAIL REFERENCE		GROUND CONDUCTOR		LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505		(E) POLE MOUNTED XFMR
	ELEVATION REFERENCE		COAXIAL CABLE		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		(N) PAD MOUNTED XFMR
	SECTION REFERENCE		OVERHEAD SERVICE CONDUCTORS		5/8" X 10'-0" .CU. GND ROD 30" MIN. BELOW GRADE.		(E) PAD MOUNTED XFMR

LEGEND 1

A	AMPERE	EMT.	ELECTRICAL METALLIC TUBING	MTD.	MOUNTED	T.O.F.	TOP OF FOUNDATION
A.B.	ANCHOR BOLT	E.N.	EDGE NAIL	MTG.	MOUNTING	T.O.P.	TOP OF PLATE (PARAPET)
ABV.	ABOVE	ENCL.	ENCLOSURE	MTL.	METAL	T.O.S.	TOP OF STEEL
ACC.	ALTERNATE CURRENT/AIR CONDITIONER	ENG.	ENGINEER	MTS.	MANUAL TRANSFER SWITCH	T.O.W.	TOP OF WALL
ACCA	ANTENNA CABLE COVER ASSEMBLY	E.O.	EQUAL	N.	NEUTRAL	TYP.	TYPICAL
ADD'L	ADDITIONAL	EXST.(E)	EXISTING	(N)	NEW	U.G.	UNDER GROUND
A.F.F.	ABOVE FINISHED FLOOR	EXP.	EXPANSION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U.L.	UNDERWRITERS LABORATORY INC.
A.F.G.	ABOVE FINISHED GRADE	EXT.	EXTERIOR	NG.(#)	NUMBER	UMTS	UNIVERSAL MOBIL TECH. SYS. (3G MOBILE TECH.)
AIC	AMPERE INTERRUPTING CAPACITY	FAB.	FABRICATION(OR)	N.T.S.	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
ALUM.	ALUMINUM	FAC.	FACE OF STUD	OPT.	OPTICAL BASEBAND INTERFACE	V.	VOLT
ALT.	ALTERNATE	F/A	FIRE ALARM	OH	OVERHEAD	VAC	VOLT ALTERNATING CURRENT
ANT.	ANTENNA	F.F.	FINISH FLOOR	O.C.	ON CENTER	V.I.F.	VERIFY IN FIELD
APPROX.	APPROXIMATE(LY)	F.G.	FINISH GRADE	OPNG.	OPENING	W	WATT OR WIRE
ARCH.	ARCHITECT(URAL)	FIN.	FINISH(ED)	P	PRECAST CONCRETE	WD	WIDE(WIDTH)
AT.	AMPERE TRIP	FLR.	FLOOR	P/C	PERSONAL COMMUNICATION SERVICES	W/O	WITHOUT
AWG.	AMERICAN WIRE GAUGE	FLUOR	FLUORESCENT	PH	PHASE	W/P.	WEATHERPROOF
BATT.	BATTERY	FDN.	FOUNDATION	PLY.	PLYWOOD	WT.	WEIGHT
BD.	BOARD	F.O.C.	FACE OF CONCRETE	PNLBD	PANELBOARD	XFER	TRANSFER
BLDG.	BUILDING	F.O.M.	FACE OF MASONRY	PPC	POWER PROTECTION CABINET	XFMR	TRANSFORMER
BLK.	BLOCK	F.O.S.	FACE OF STUD	PRC	PRIMARY RADIO CABINET	XLPE	CROSS-LINK POLYETHYLENE
BLKG.	BLOCKING	F.O.W.	FACE OF WALL	PRI	PRIMARY	E	CENTERLINE
BM.	BEAM	FRP	FIBER REINFORCE POLYMER/GALV.	P.S.F.	POUNDS PER SQUARE FOOT	E	PLATE, PROPERTY LINE
B.N.	BOUNDARY NAILING	F.S.	FINISH SURFACE	P.S.I.	POUNDS PER SQUARE INCH		
BR.	BRANCH	FT.(')	FOOT (FEET)	P.T.	PRESSURE TREATED		
BRKR.	BREAKER	FTG.	FOOTING	PWR.	POWER (CABINET)		
BTCW.	BARE TINNED COPPER WIRE	FU	FUSE	QTY.	QUANTITY		
BTS.	BASE TRANSMISSION SYSTEM	G	GROUND	QTY.	QUANTITY		
B.O.F.	BOTTOM OF FOOTING	GR	GROWTH (CABINET)	RAD.(R)	RADIUS		
B/U	BACK-UP CABINET	GR	GROWTH (CABINET)	RBS	RADIO BASE STATION		
C	CONDUIT	GA	GAUGE		(BASE STATION 3G NETWORKS)		
CAB.	CABINET	GEN.	GENERATOR	RCPT.	RECEPTACLE		
CANT.	CANTILEVER(ED)	GL.	GALVANIZE(D)	REF.	REFERENCE		
CB.	CIRCUIT BREAKER	G.F.C. I.	GROUND FAULT CIRCUIT INTERRUPTER	REIN.	REINFORCEMENT(ING)		
CDMA	CODE-DIVISION MULTIPLE ACCESS (2G & 3G)	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	REQ'D.	REQUIRED		
CDUK	CONSOLIDATION DISTRIBUTION UNIT KIT	GPS	GLOBAL POSITIONING SYSTEM	RGS.	RIGID GALVANIZED STEEL		
C.I.P.	CAST IN PLACE	GRND.	GROUND	RRU	REMOTE RADIO UNIT		
CKT.	CIRCUIT	GSM	GLOBAL SYSTEM MOBILE (2G+ MOBILE TECH.)		(RADIO TRANSCEIVER)		
CLG.	CEILING	HBB	HARD DRAWN COPPER WIRE		RECEIVER AIR INTERFACE TRAY		
CLR.	CLEAR	HDR.	HEADER	RX-AIT	SAFETY		
CMU	CONCRETE MASONRY UNIT (JAMB BLOCKS)	HGR.	HANGER	SCH.	SCHEDULE		
COL.	COLUMN	HPS	HIGH PRESSURE SODIUM	SDBC	SECONDARY		
CONC.	CONCRETE	HT.	HEIGHT	SHT.	SHEET		
CONN.	CONNECTION(OR)	ICGB.	ISOLATED COPPER GROUND BUS	SHT.	SHEET		
CONST.	CONSTRUCTION	ILC	INTEGRATED LEAD CENTER	SIM.	SIMILAR		
CONT.	CONTINUOUS	IN.(")	INCH(ES)	S.N.	SPECIFICATION(S)		
d	PENNY (NAILS)	INT.	INTERIOR	SPEC.	SPECIFICATION(S)		
DBL.	DOUBLE	LB.(#)	POUND(S)	SO.	SQUARE		
DC	DIRECT CURRENT	L.B.	LAG BOLTS	S.S.	STAINLESS STEEL		
DEM.	DEPARTMENT	L.F.	LINEAR FEET (FOOT)	STD.	STANDARD		
DEPT.	DEPARTMENT	LG.	LENGTH	STL.	STRUCTURAL		
D.F.	DOUGLAS FIR	L.	LONG(ITUDINAL)	SURF	SURFACE		
DIA.	DIAMETER	LPS	LOW PRESSURE SODIUM	SW	SWITCH		
DIAG.	DIAGONAL	LTE	LONG TERM EVOLUTION (4G MOBILE TECH.)	TEL.	TELEPHONE		
DIM.	DIMENSION	MAS.	MASONRY	TEMP.	TEMPORARY		
DWG.	DRAWING(S)	MAX.	MAXIMUM	THK.	THICK(NESS)		
DWL.	DOWEL(S)	M.B.	MACHINE BOLT	TMAS	TOWER MOUNTED AMPLIFIER		
EA.	EACH	MECH.	MECHANICAL	T.N.	TOP OF ANTENNA		
EGR.	EMERGENCY GENERATOR RECEPTACLE	MFR.	MANUFACTURER	T.O.A.	TOP OF CURB		
EL.	ELEVATION	MIN.	MINIMUM	T.O.C.	TOP OF CURB		
ELEC.	ELECTRICAL	MISC.	MISCELLANEOUS				
ELEV.	ELEVATOR	MLO	MAIN LUGS ONLY				

NOTES FOR EXISTING AT&T CELL SITES:

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND TI CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

- THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 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 WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING (SHEET LS1 OR SHEET C-1), SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE 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 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 ENGINEER.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T.
- KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
- PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ENGINEER, IF NECESSARY, BEFORE PROCEEDING.
- BEFORE ORDERING AND/OR BEFORE FABRICATING/CONSTRUCTING/INSTALLING ANY ITEMS, VERIFY THE TYPES AND QUANTITIES.
- CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE AND PAGER, AND KEEP SAME ON SITE WHENEVER PERSONNEL ARE ON SITE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
- CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
- CONTRACTOR IS TO EXCAVATE 6" BELOW EXISTING GRADE AND SPRAY WITH WEED CONTROL. REPLACE WITH CLASS II AGGREGATE BASE AND CRUSHED WASHED ROCK. AS SPECIFIED ON SITE PLAN.
- CONTRACTOR SHALL PROVIDE TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR THE FABRICATION OF MATERIALS TO BE INSTALLED AT THE SITE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INCLUDING AS-BUILT DIMENSIONS OF EXISTING STRUCTURES OR STRUCTURAL ELEMENTS HAVING A BEARING ON THE SCOPE OF THE WORK TO BE PERFORMED. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE DIMENSIONS OR CONDITIONS FOUND TO BE EXISTING IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION(S) OF THE WORK AFFECTED. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO SO NOTIFY THE ENGINEER AND OBTAIN RESOLUTION BEFORE PROCEEDING.

APPLICANT:

1452 EDINGER AVENUE,
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:

an SFC Communications, Inc. Company

65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

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CHECKED BY: AG

REVISIONS:

REV	DATE	DESCRIPTION
8	09/06/2022	RF COMMENTS
7	08/29/2022	RAD CENTER REVISION
6	07/20/2022	SBA COMMENTS
5	03/09/2022	ANTENNA MOUNTING
4	11/30/2021	100% CONSTRUCTION DRAWING
3	06/17/2021	ANTENNA CHANGE
2	05/28/2021	UPDATED STRUCTURAL
1	03/22/2021	REVISED FIBER PLAN
0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

NOT FOR CONSTRUCTION

PROJECT INFORMATION:

CSL05779

112775 HWY. 395
COLEVILLE, CA 96107

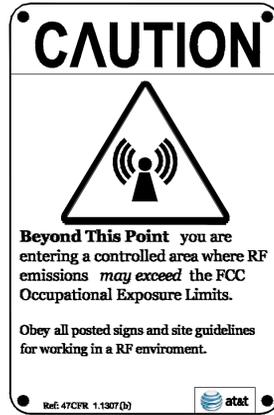
SHEET TITLE:

GENERAL NOTES,
LEGEND, AND
ABBREVIATIONS

SHEET NUMBER:

T-2

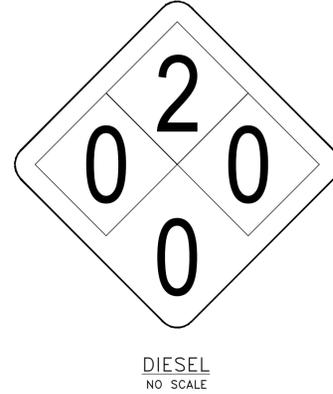
EUKON AT&T TEMP V2.0



GENERATOR BATTERY
NO SCALE



BATTERY
NO SCALE

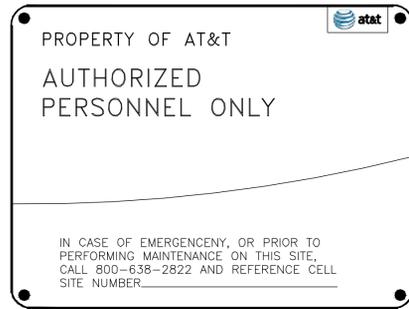


DIESEL
NO SCALE

ALERTING SIGNS
NO SCALE



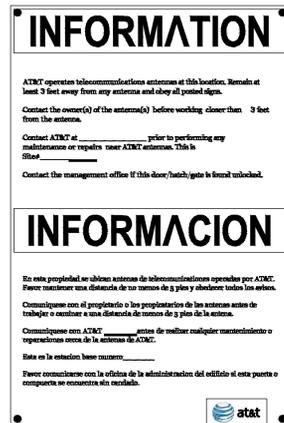
ALERTING SIGN
NO SCALE



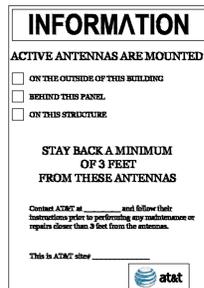
INFO SIGN #5
NO SCALE



INFO SIGN #3
NO SCALE



INFO SIGN #1
NO SCALE



INFO SIGN #2
NO SCALE

STAY BACK 3 FEET FROM ANTENNA



INFO SIGN #4
NO SCALE

GENERAL SIGNAGE GUIDELINES

Structure Type	INFO SIGN #1	INFO SIGN #2	INFO SIGN #3	INFO SIGN #4	INFO SIGN #5	Striping	NOTICE SIGN	CAUTION SIGN
Towers								
MONOPINE/Monopine/Monopalm	entrance gates, shelter doors OR on the outdoor cabinets	climbing side of the Tower	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet			At the height of the first climbing step, min. 9ft above ground
SCE Towers/Towers with high voltage	entrance gates, shelter doors OR on the outdoor cabinets	climbing side of the Tower	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet			At the height of the first climbing step, min. 9ft above ground
Light Poles/Flag Poles	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet			
Utility Wood Poles (JPA)	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet		If GP max value of MPE at antenna level is: 0-99%: Notice sign; over 99%: Caution sign at no less than 3ft below antenna and 9ft above ground	
Microcells mounted on non-JPA poles	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet		Notice or Caution sign at no less than 9ft above ground; only if the exposure exceeds 90% of the General Public Exposure at 6ft above ground or at	
Roof Tops								
At all access points to the roof	X							
On Antennas	X		X	X				
Concealed Antennas	X	X						
antennas mounted facing outside the building	X	X						
antennas on support structure	X	X						
Roofview Graph:								
Radiation area is within 3ft from antenna	X	adjacent to each antenna					either Notice or Caution sign (based on Roofview results) at antennas/barrier	
Radiation area is beyond 3ft from antenna	X	adjacent to each antenna				diagonal, yellow striping as to Roofview graph		
Church Steeples	Access to steeple	adjacent to antennas if antennas are concealed	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			Caution sign at the antennas
Water Stations	Access to ladder	adjacent to antennas if antennas are concealed	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			Caution sign beside info sign #1, min. 9ft above ground
Notes for Rooftop sites:								
1. Either NOTICE or CAUTION signs need to be posted at each sector as close as possible to: the outer edge of the striped off area of the outer antennas of the sector.								
2. If Roofview shows: only blue = Notice Sign, blue and yellow = Caution Sign, only yellow = Caution sign to be installed.								
3. Should the Required striping area interfere with any structures or equipment (A/C, vents, roof hatch, doors, other antennas, dishes, etc.), please notify AT&T to modify the striping area, prior to starting the work								

SIGNAGE GUIDELINES CHART
NO SCALE

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3RD FLOOR
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TEL: (949) 553-8566
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0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

NOT FOR CONSTRUCTION

PROJECT INFORMATION:

CSL05779

112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

GENERAL SIGNAGE

SHEET NUMBER:

T-3

SCHEDULE "B" NOTE

REFERENCE IS MADE TO THE TITLE REPORT ORDER #MT-00011176-M, ISSUED BY INYO-MONO TITLE COMPANY, DATED NOVEMBER 18, 2020. ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

TITLE REPORT CONTAINS NO PLOTTABLE EXCEPTIONS

LESSOR'S LEGAL DESCRIPTION

THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 36, TOWNSHIP 9 NORTH, RANGE 22 EAST, M.D.M., IN THE COUNTY OF MONO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT OF SAID LAND FILED IN THE DISTRICT LAND OFFICE ON JANUARY 28, 1875.

THE PLAT OF A DEPENDENT RESURVEY OF SAID TOWNSHIP WAS FILED IN THE DISTRICT LAND OFFICE ON FEBRUARY 5, 1951. EXCEPT THEREFROM ALL DAMS, DIVERSION WORKS AND ALL CANALS AND DITCHES WHICH MAY BE LOCATED ON AID LAND AS GRANTED TO ANTELOPE VALLEY MUTUAL WATER COMPANY BY DEED RECORDED JANUARY 19, 1926 IN BOOK V PAGE 16 OF OFFICIAL RECORDS.

EXCEPT THEREFROM THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 36, TOWNSHIP 9 NORTH, RANGE 22 EAST, M.D.B.&M., BOUNDED AND DESCRIBED AS FOLLOWS:
COMMENCING AT THE CENTER OF SAID SECTION 36 FROM WHICH THE U.S. GOVERNMENT BRASS CAP ON A 1 INCH PIPE IN A ROCK MOUND MARKING THE WEST QUARTER CORNER OF SAID SECTION BEARS SOUTH 89°53'19" WEST, 2398.02 FEET AND FROM WHICH THE U.S. GOVERNMENT BRASS CAP ON A 1 INCH PIPE IN A ROCK MOUND MARKING THE EAST QUARTER CORNER OF SAID SECTION BEARS NORTH 89°53'19" EAST, 2696.86 FEET, SAID CENTER OF SECTION 36 LIES DISTANT SOUTH 89°53'19" WEST, 183.71 FEET FROM ENGINEERS STATION 186+53.49 ON THE STATE DEPARTMENT OF TRANSPORTATION'S BASELINE; THENCE, FROM SAID QUARTER OF THE NORTHWEST QUARTER, NORTH 2°20'10" EAST, 452.96 FEET TO THE TRUE POINT OF BEGINNING; THENCE (1), FROM SAID TRUE POINT OF BEGINNING, NORTH 23°24'12" WEST, 552.17 FEET; THENCE (2), NORTH 63°48'52" EAST, 30.04 FEET; THENCE (3), NORTH 26°11'08" WEST, 404.28 FEET TO THE NORTH LINE OF SAID SOUTHEAST QUARTER OF THE NORTHWEST QUARTER; THENCE (4), ALONG SAID NORTH LINE, SOUTH 89°52'59" EAST, 89.24 FEET; THENCE (5), SOUTH 26°11'08" EAST, 364.74 FEET; THENCE (6), NORTH 63°48'52" EAST, 29.96 FEET; THENCE (7) SOUTH 23°55'46" EAST, 263.91 FEET TO SAID EAST LINE OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER; THENCE (8), ALONG SAID EAST LINE, SOUTH 2°20'10" WEST, 327.57 FEET TO THE TRUE POINT OF BEGINNING; CONTAINING 0.61 ACRE, MORE OR LESS, IN ADDITION TO 1.42 ACRES, MORE OR LESS, NOW USED AND ACKNOWLEDGED AS STATE HIGHWAY RIGHT OF WAY.

BEARINGS HEREIN ARE GRID BEARINGS OF THE CALIFORNIA COORDINATE SYSTEM, ZONE 3. DISTANCES ARE GROUND DISTANCES. THE BASES OF BEARINGS IS NORTH 89°53'19" EAST, ON THE EAST-WEST QUARTER LINE OF SAID SECTION 36, THE TERMINAL OF SAID QUARTER LINE BEING U.S. GOVERNMENT BRASS CAP ON 1 INCH PIPES IN ROCK MOUNDS, AS GRANTED TO THE STATE OF CALIFORNIA IN DEED RECORDED JULY 13, 1976 IN BOOK 204 PAGE 323 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM A PARCEL OF LAND LOCATED IN SECTION 36, TOWNSHIP 9 NORTH, RANGE 22 EAST, M.D.B.&M., MONO COUNTY, CALIFORNIA AND BEING A PORTION OF THE SOUTHEAST QUARTER, NORTHWEST QUARTER, SECTION 36 LYING EAST OF THE EASTERLY R/W LINE OF U.S. HIGHWAY 395 AS SHOWN ON CALTRANS APPRAISAL MAP NO. 09-MNO-395-PM 112.0/112.9, SHEET 5 OF 5, DATED JANUARY, 1976 AND MORE PARTICULARLY DESCRIBED AS FOLLOWS USING CALIFORNIA COORDINATE SYSTEM, ZONE 3 GRID BEARINGS, GROUND DISTANCES, GRID FACTOR 0.9997877:

BEGINNING AT A POINT THAT IS THE INTERSECTION OF THE NORTH LINE OF SAID SOUTHEAST QUARTER, NORTHWEST QUARTER, SECTION 36, AND THE EASTERLY R/W LINE OF U.S. HIGHWAY 395; THENCE ALONG THE NORTHERLY LINE OF SAID SOUTHEAST QUARTER, NORTHWEST QUARTER, SECTION 36, SOUTH 89°52'59" EAST, 317.51 FEET TO THE NORTHEAST CORNER OF SAID SOUTHEAST QUARTER, NORTHWEST QUARTER, SECTION 36; THENCE ALONG THE EASTERLY LINE OF SAID SOUTHEAST QUARTER, NORTHWEST QUARTER, SECTION 36 SOUTH 2°20'10" WEST, 555.12 FEET TO A POINT ON THE EASTERLY R/W LINE OF U.S. HIGHWAY 395; THENCE ALONG THE EASTERLY R/W LINE OF U.S. HIGHWAY 395 THE FOLLOWING BEARINGS AND DISTANCES: NORTH 23°55'46" WEST, 263.91 FEET; SOUTH 63°48'52" WEST, 29.96 FEET; NORTH 26°11'08" WEST, 364.74 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM, ANY PORTION LYING WITHIN PARCEL MAP 31-77 AS RECORDED IN BOOK 4, PAGE 69 OF PARCEL MAPS OF THE MONO COUNTY CALIFORNIA RECORDS.

LEASE AREA LEGAL DESCRIPTION

A PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 36, TOWNSHIP 9 NORTH, RANGE 22 EAST, M.D.M., IN THE COUNTY OF MONO, STATE OF CALIFORNIA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
NOTE: ALL BEARINGS AND DISTANCES DESCRIBED HEREIN ARE BASED ON THE CALIFORNIA ZONE 3 STATE PLANE COORDINATE ZONE GRID. TO DERIVE GROUND DISTANCES DIVIDE BY 0.99978293

COMMENCING AT THE WEST QUARTER CORNER OF SAID SECTION 36, FROM WHICH THE NORTHWEST CORNER OF SAID SECTION BEARS NORTH 02°33'47" WEST, 2890.71; THENCE FROM SAID POINT OF COMMENCEMENT NORTH 89°22'38" EAST, 1810.77 FEET TO THE POINT OF BEGINNING; THENCE NORTH 00°29'31" EAST, 19.00 FEET; THENCE SOUTH 89°30'29" EAST, 25.00 FEET; THENCE SOUTH 00°29'31" WEST, 19.00 FEET; THENCE NORTH 89°30'29" WEST, 25.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 475 SQUARE FEET (0.01 ACRES) OF LAND, MORE OR LESS.

ACCESS NOTE

RESERVING NONEXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR NECESSARY APPURTENANCES TO CONSTRUCT, OPERATE, AND MAINTAIN A COMMUNICATION FACILITY FOR ITEMS SUCH AS, BUT NOT LIMITED TO INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT, AND UTILITIES.

APPLICANT:



1452 EDINGER AVENUE
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:



65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

DRAWN BY: RR
CHECKED BY: NS

REVISIONS:

REV	DATE	DESCRIPTION
0	12/01/20	TITLE/DESIGN (C) (CK)
A	10/16/20	PRELIMINARY (RR)



410 E. SOUTHERN AVE.
TEMPE, ARIZONA 85282
PH. (480) 659-4072
www.ambitconsulting.us

ambit consulting

PROJECT INFORMATION:

CSL05779

112775 US-395
COLEVILLE, CA 96107

MONO COUNTY

SHEET TITLE:

NOTES

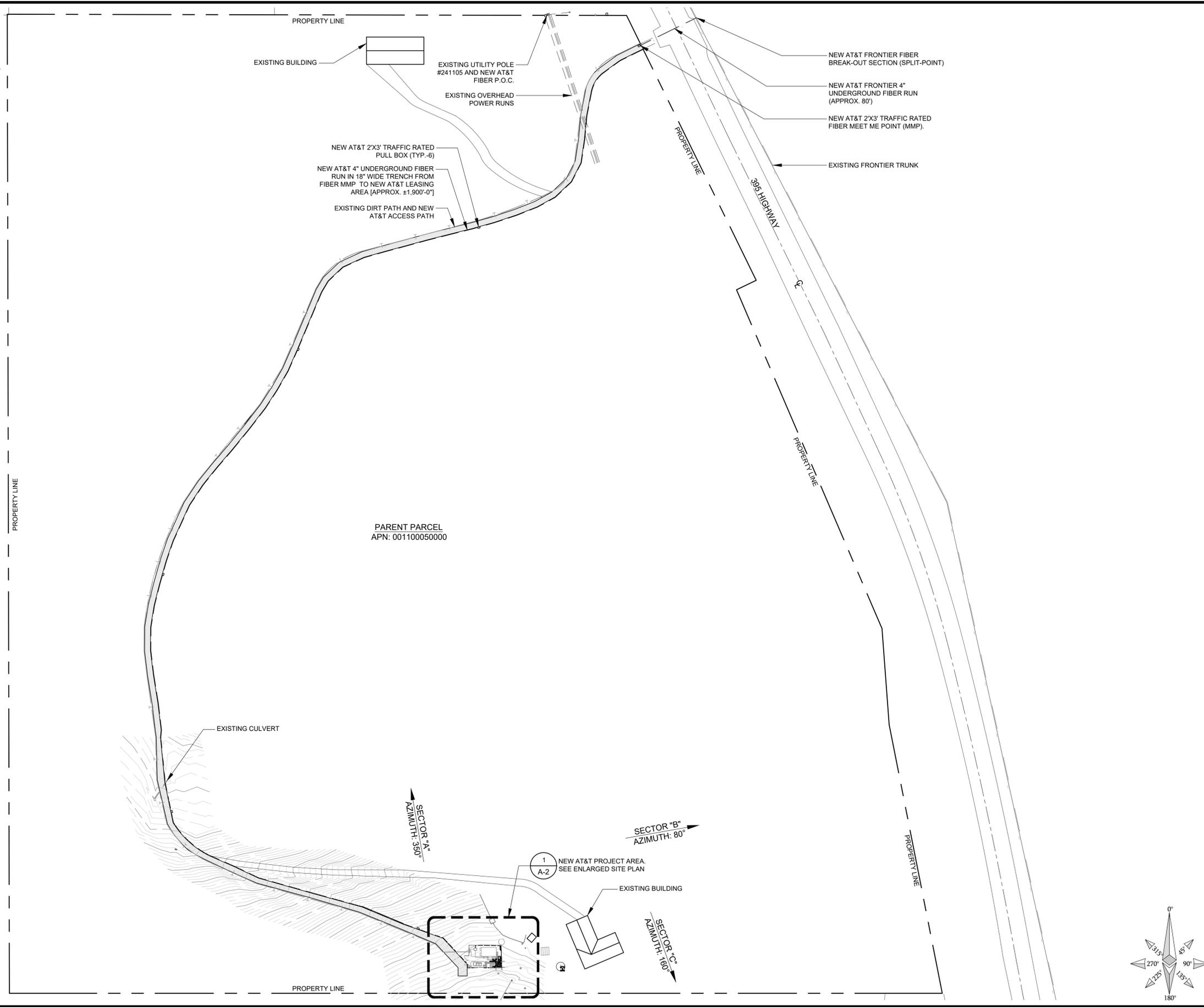
SHEET NUMBER:

LS-2

FOR EXAMINATION ONLY

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE
CORRECTLY, CHECK FOR REDUCTION OR
ENLARGEMENT FROM ORIGINAL PLANS.

NOTES:
1. THIS IS NOT INTENDED TO BE A LAND SURVEY.



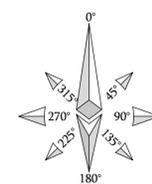
PARENT PARCEL
APN: 001100050000

SECTOR "A"
AZIMUTH: 360°

SECTOR "B"
AZIMUTH: 80°

SECTOR "C"
AZIMUTH: 160°

1
A-2
NEW AT&T PROJECT AREA.
SEE ENLARGED SITE PLAN



SCALE
NONE 1

APPLICANT:



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3RD FLOOR
TUSTIN, CA 92780

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1	03/22/2021	REVISED FIBER PLAN
0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

**NOT FOR
CONSTRUCTION**

PROJECT INFORMATION:

CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

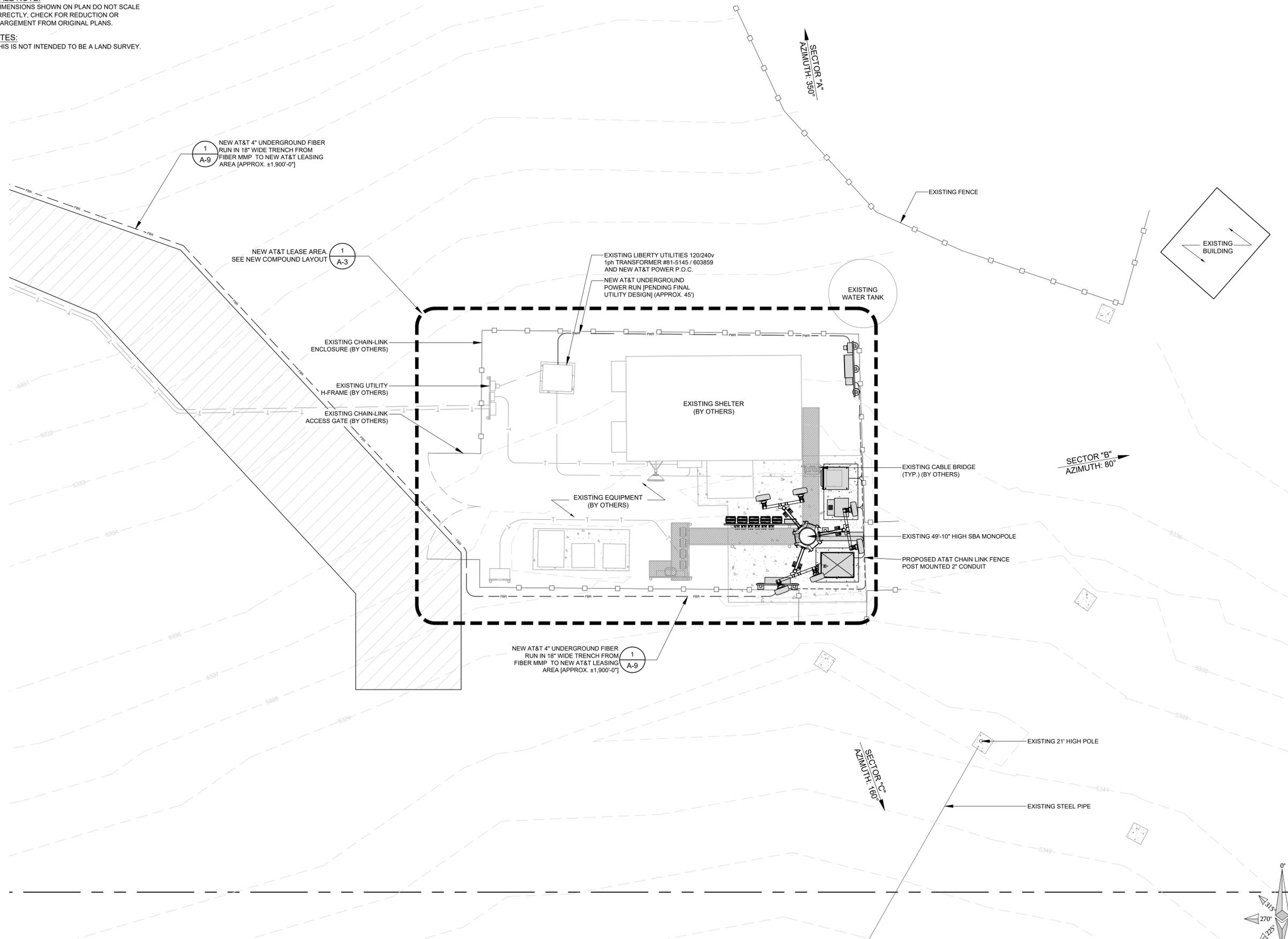
A-1

EUKON AT&T TEMP V2.0

SITE PLAN

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CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

ENLARGED
SITE PLAN

SHEET NUMBER:

A-2

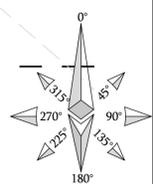
EUKON AT&T TEMP V2.0

ENLARGED SITE PLAN

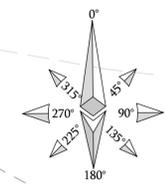
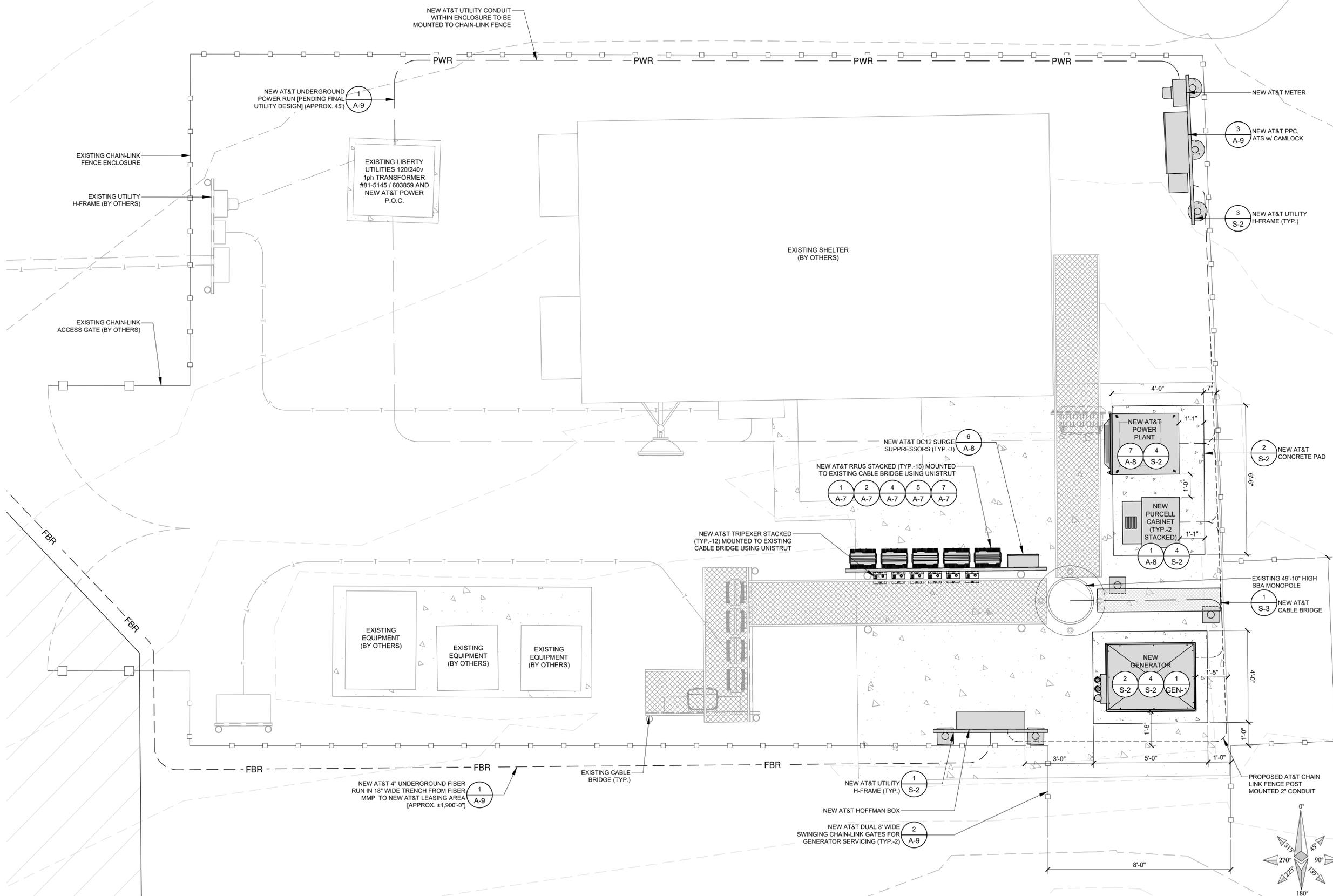
SCALE 3/32"=1'-0"



1



SCALE NOTE:
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CONSTRUCTION

PROJECT INFORMATION:

CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:
NEW COMPOUND
AND EQUIPMENT
LAYOUT

SHEET NUMBER:
A-3

EUKON AT&T TEMP V2.0

OPTION 1

1

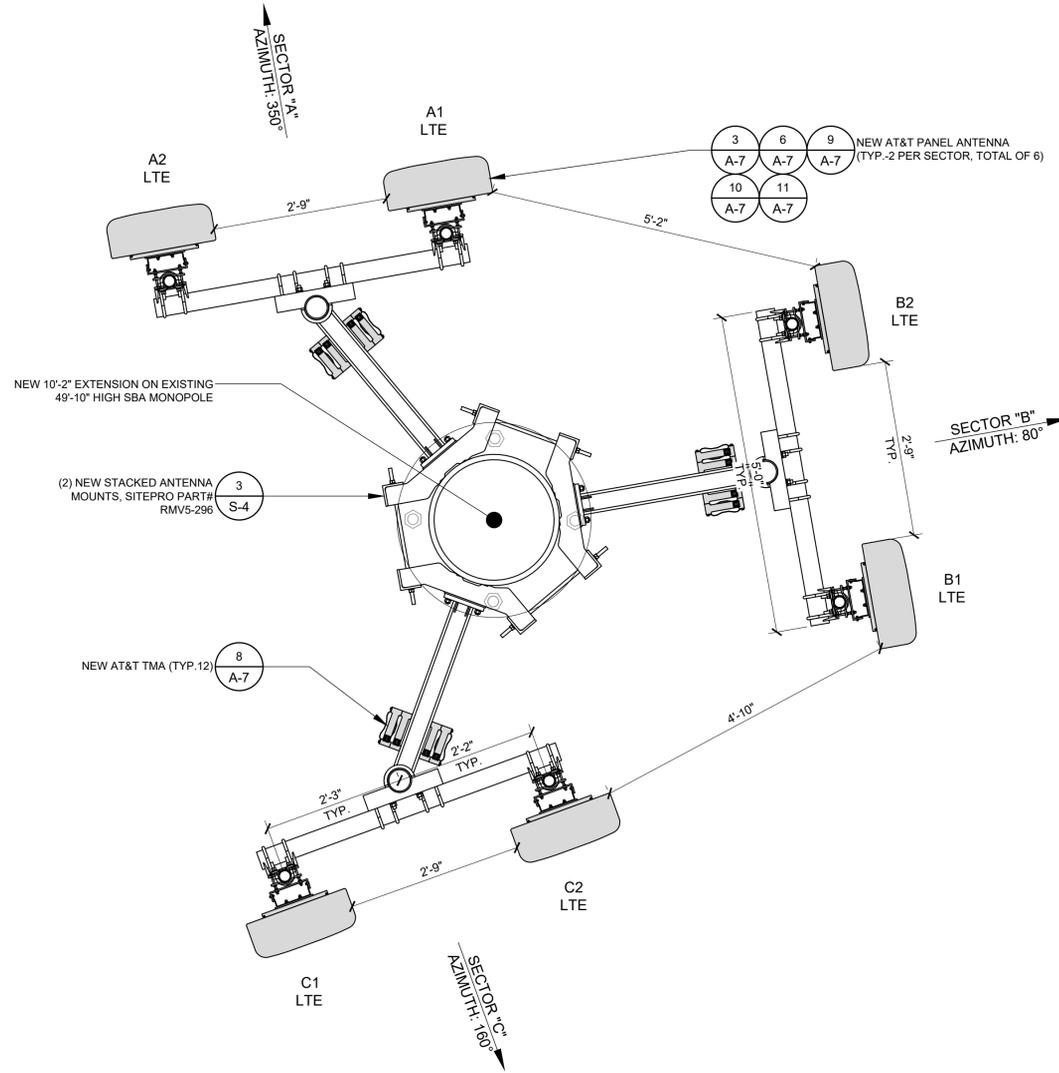
OPTIMUM ANTENNA REQUIREMENTS (VERIFY WITH CURRENT RFDS)

SECTOR	TECHNOLOGY	ANTENNA TYPE	ANTENNA SIZE	ANTENNA AZIMUTH	RAD CENTER	TRANSMISSION CABLE		
						LENGTH	NUMBER	
ALPHA SECTOR	A1	LTE	CCI TP-A45R-KU6AA-K	6'	350°	57'-0"	±70'	2 POWER 1 FIBER
	A2	LTE/CBAND	CCI TP-A45R-KU6AA-K	6'	350°	57'-0"		
	A3	-	-	-	-	-		
	-	-	-	-	-	-		
BETA SECTOR	B1	LTE	CCI TP-A65R-BU6DA-K	6'	80°	57'-0"	±70'	2 POWER 1 FIBER
	B2	LTE/CBAND	CCI TP-A65R-BU6DA-K	6'	80°	57'-0"		
	B3	-	-	-	-	-		
	-	-	-	-	-	-		
GAMMA SECTOR	C1	LTE	CCI TP-A45R-KU6AA-K	6'	160°	57'-0"	±70'	2 POWER 1 FIBER
	C2	LTE/CBAND	CCI TP-A45R-KU6AA-K	6'	160°	57'-0"		
	C3	-	-	-	-	-		
	-	-	-	-	-	-		

NOTES TO CONTRACTOR

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON A VISUAL INSPECTION DURING SITE WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).
- CONTRACTOR TO USE CABLES SPECIFIED (OR ENGINEER APPROVED EQUAL).

SCALE NOTE:
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REMOTE RADIO UNITS

SECTOR	RRU TYPE	RRU LOCATION (DISTANCE FROM ANTENNA)	MINIMUM CLEARANCES		
			ABOVE	BELOW	SIDES
ALPHA SECTOR	A1	ERICSSON RRU's 4449 B5/B12	±15'	16"	8" 0"
	A1	ERICSSON RRU's 8843 B2/B66A	±15'	16"	8" 0"
	A2	-	-	-	-
	A2	-	-	-	-
	A2	-	-	-	-
	A3	ERICSSON RRU's 4478 B14	±15'	16"	8" 0"
	A3	ERICSSON RRU's 4415 B25	±15'	16"	8" 0"
	A3	ERICSSON RRU's 4415 B30	±15'	16"	8" 0"
	A4	-	-	-	-
	A4	-	-	-	-
	A4	-	-	-	-
	BETA SECTOR	B1	ERICSSON RRU's 4449 B5/B12	±15'	16"
B1		ERICSSON RRU's 8843 B2/B66A	±15'	16"	8" 0"
B2		-	-	-	-
B2		-	-	-	-
B2		-	-	-	-
B3		ERICSSON RRU's 4478 B14	±15'	16"	8" 0"
B3		ERICSSON RRU's 4415 B25	±15'	16"	8" 0"
B3		ERICSSON RRU's 4415 B30	±15'	16"	8" 0"
B4		-	-	-	-
B4		-	-	-	-
B4		-	-	-	-
GAMMA SECTOR		C1	ERICSSON RRU's 4449 B5/B12	±15'	16"
	C1	ERICSSON RRU's 8843 B2/B66A	±15'	16"	8" 0"
	C2	-	-	-	-
	C2	-	-	-	-
	C2	-	-	-	-
	C3	ERICSSON RRU's 4478 B14	±15'	16"	8" 0"
	C3	ERICSSON RRU's 4415 B25	±15'	16"	8" 0"
	C3	ERICSSON RRU's 4415 B30	±15'	16"	8" 0"
	C4	-	-	-	-
	C4	-	-	-	-
	C4	-	-	-	-

SURGE SUPPRESSION SYSTEM

SYSTEM	MANUFACTURER	PART NUMBER	QTY	LOCATION
	RAYCAP	DC12-48-60-0-25E	3	MOUNTED ONTO NEW H-FRAME
	RAYCAP	-	-	-

APPLICANT:

1452 EDINGER AVENUE,
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:

an SFC Communications, Inc. Company
65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

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REVISIONS:

REV	DATE	DESCRIPTION
8	09/06/2022	RF COMMENTS
7	08/29/2022	RAD CENTER REVISION
6	07/20/2022	SBA COMMENTS
5	03/09/2022	ANTENNA MOUNTING
4	11/30/2021	100% CONSTRUCTION DRAWING
3	06/17/2021	ANTENNA CHANGE
2	05/28/2021	UPDATED STRUCTURAL
1	03/22/2021	REVISED FIBER PLAN
0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

NOT FOR CONSTRUCTION

PROJECT INFORMATION:

CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

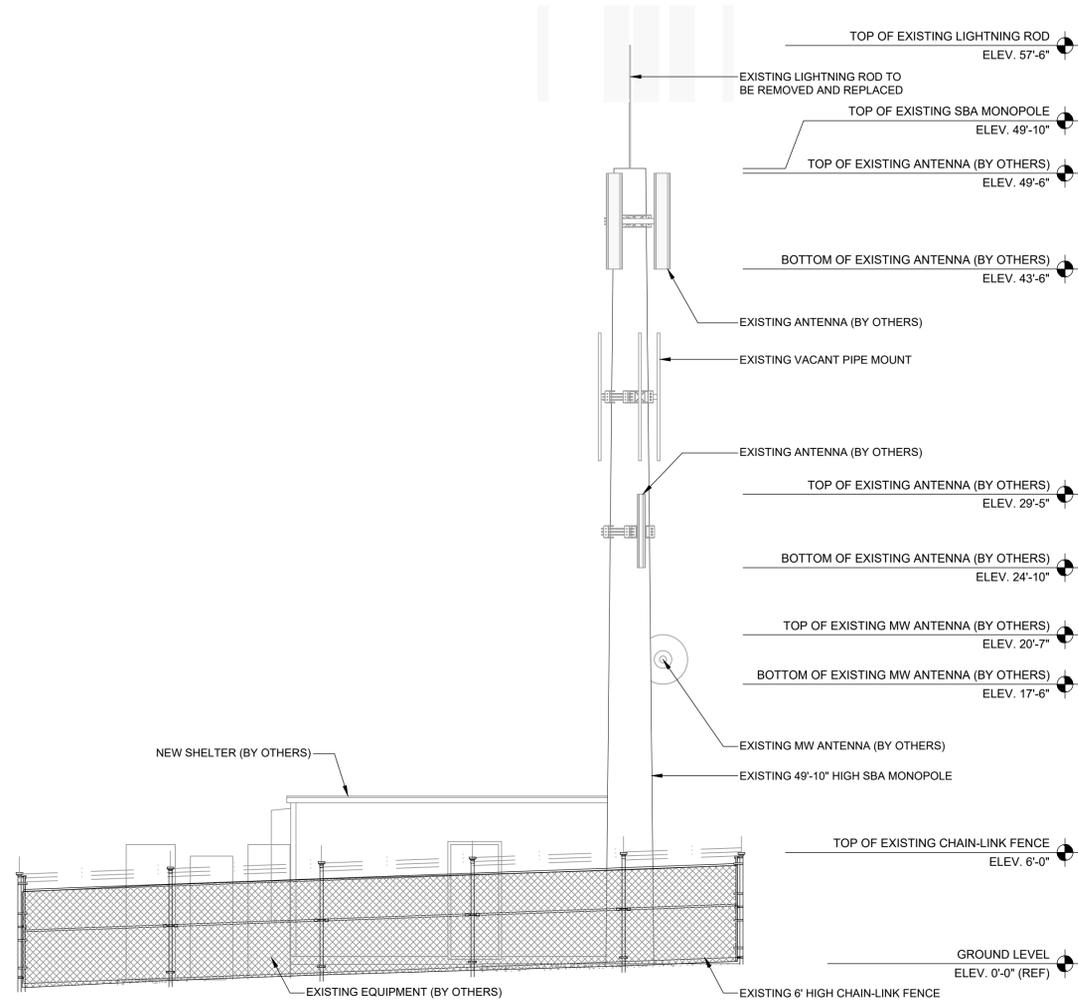
NEW ANTENNA PLAN/ANTENNA AND RRU SCHEDULE

SHEET NUMBER:

A-4

EUKON AT&T TEMP V2.0

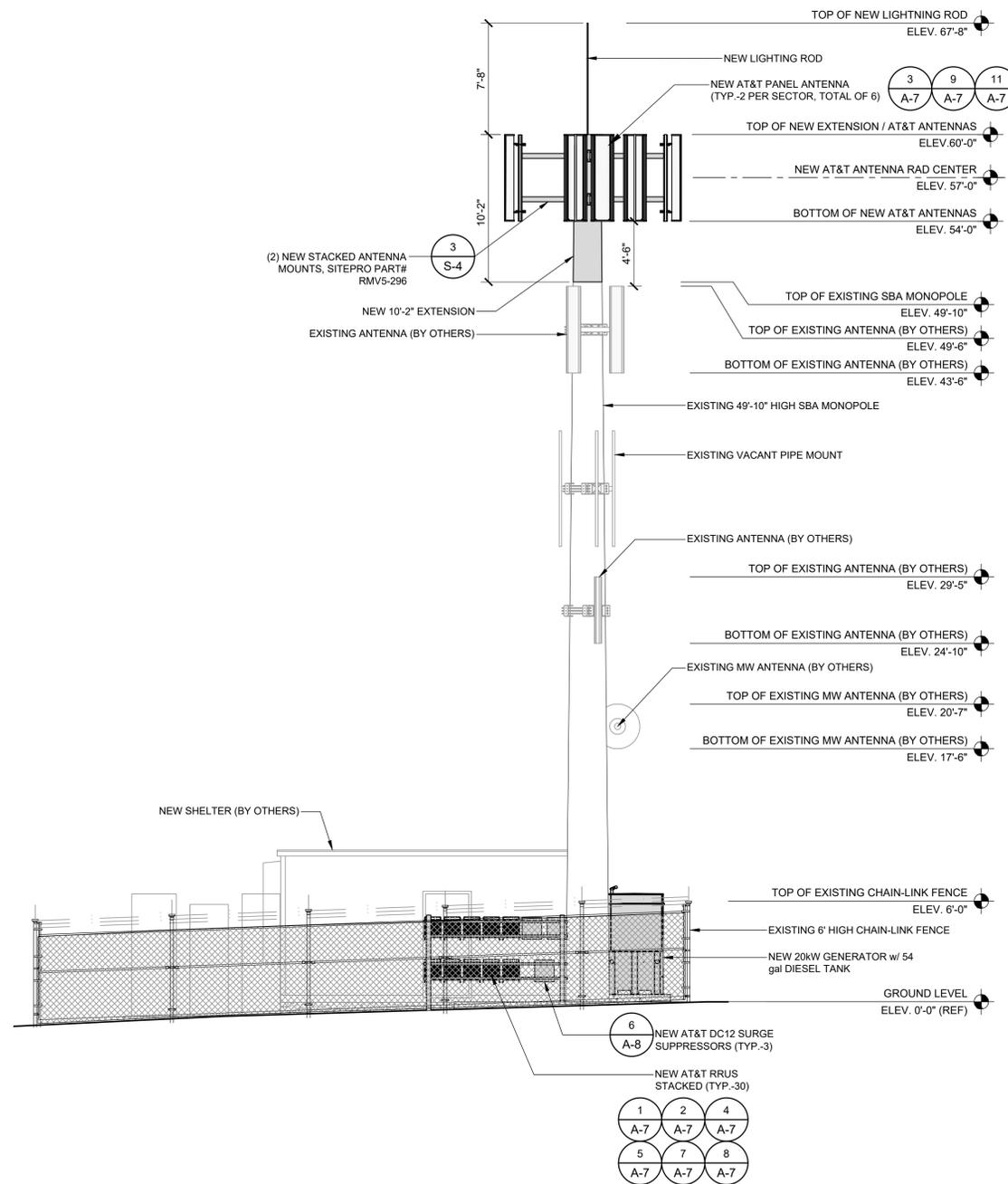
SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE
CORRECTLY, CHECK FOR REDUCTION OR
ENLARGEMENT FROM ORIGINAL PLANS.



EXISTING NORTH ELEVATION



2



NEW NORTH ELEVATION



1

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65 POST, SUITE 1000
IRVINE, CA 92618
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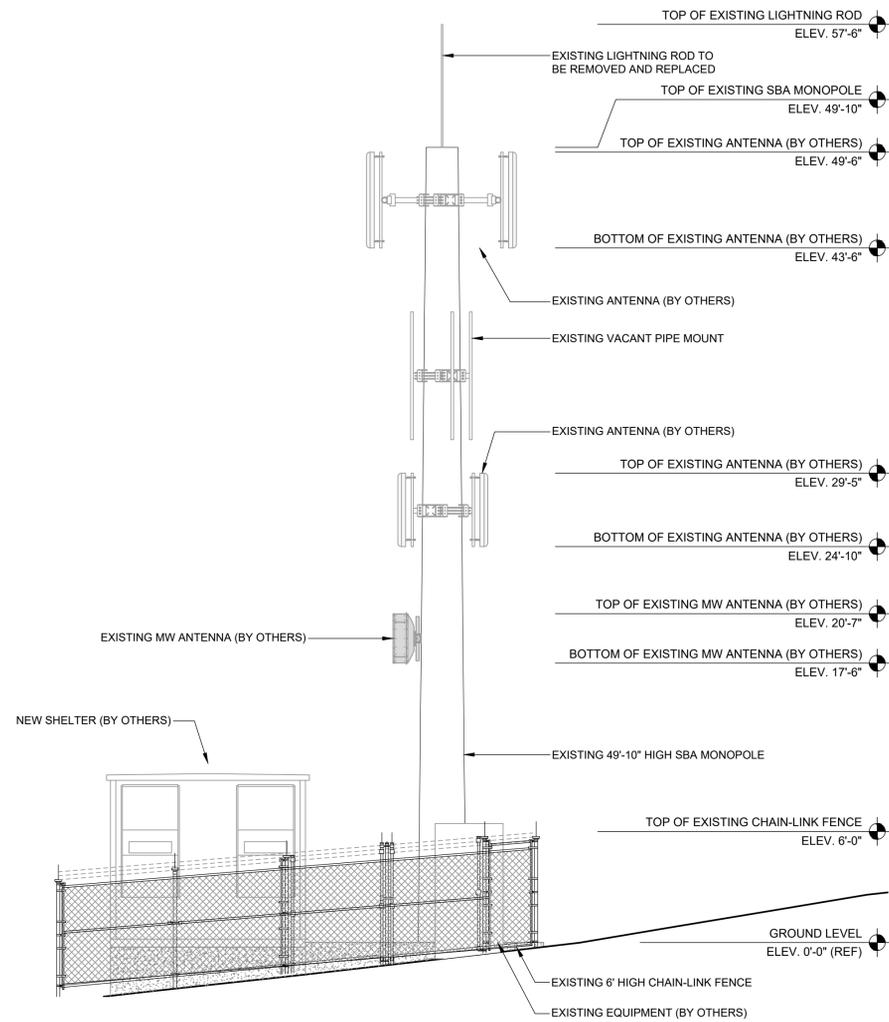
SHEET TITLE:

NEW AND EXISTING
NORTH ELEVATION

SHEET NUMBER:

A-5

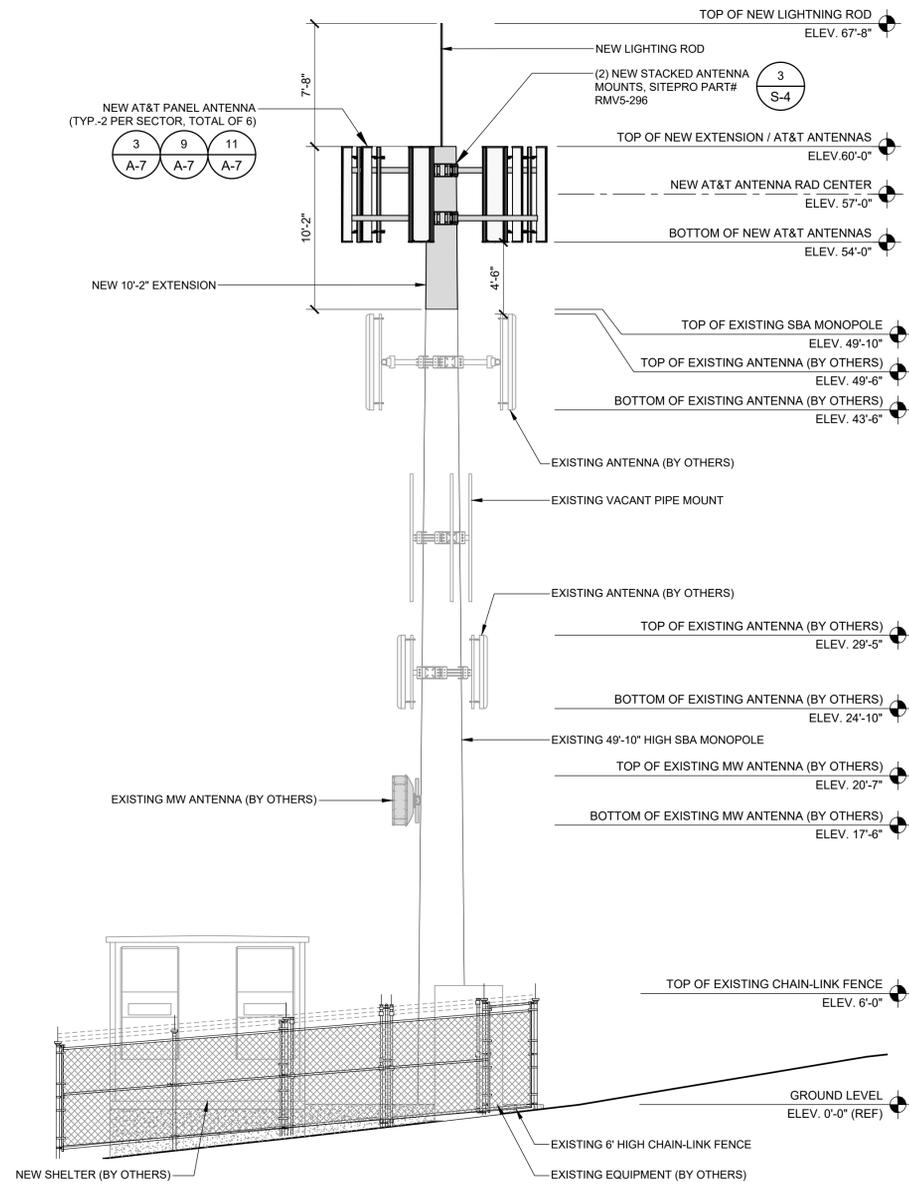
SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE
CORRECTLY, CHECK FOR REDUCTION OR
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EXISTING EAST ELEVATION



2



NEW EAST ELEVATION



1

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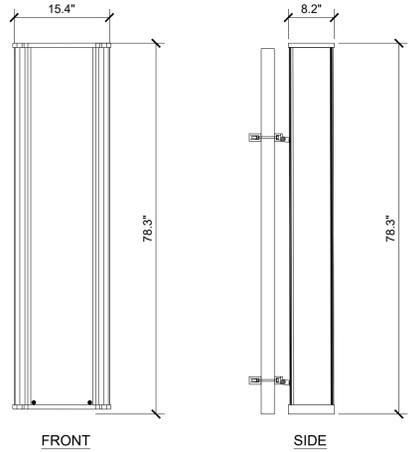
NEW AND EXISTING
EAST ELEVATION

SHEET NUMBER:

A-6

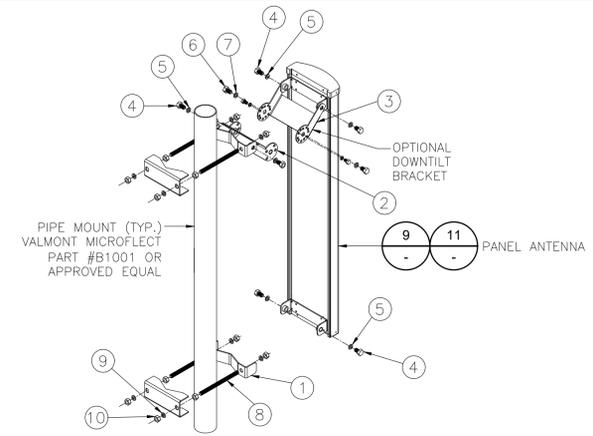
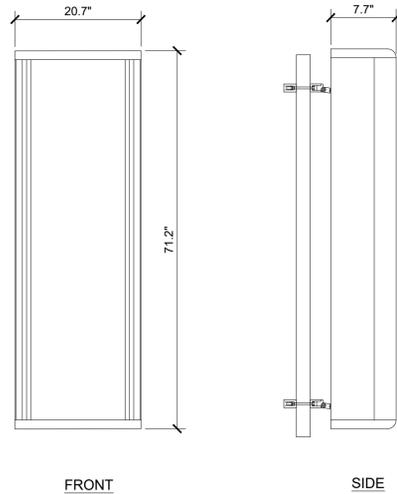
CCI-TPA45R-KU6A-AK

DIMENSIONS (LxWxD): 78.3 x 15.4 x 8.2 INCHES
(1990 x 391 x 208 mm)
WEIGHT: 56.2lbs (25.5 kg)



CCI-TPA65R-BU6D-K

DIMENSIONS (LxWxD): 71.2 x 20.7 x 7.7 INCHES
(1808 x 525 x 197 mm)
WEIGHT: 68.3lbs (31.0 kg)



- NOTES:**
1. INSERT SCISSOR BRACKETS BETWEEN THE UPPER ANTENNA MOUNTING BRACKET AND THE UPPER POLE ADAPTER BRACKET. SECURE USING 1/2 INCH HARDWARE PROVIDED.
 2. TO SET THE DEGREE OF DOWNTILT, ALIGN THE DESIRED HOLES ON THE SCISSOR BRACKETS AND SECURE USING 5/16 INCH HARDWARE PROVIDED.
 3. THE NUMBER OF CONNECTORS WILL VARY BASED ON ANTENNA TYPE.

ITEM	QTY	DESCRIPTION
①	1	ADAPTER, POLE, LOWER
②	1	BRACKET, DOWNTILT, POLE
③	1	BRACKET, DOWNTILT, ANTENNA
④	6	1/2 x 1 HEX HEAD BOLT
⑤	6	1/2 SPLIT WASHER
⑥	2	5/16 x 1 HEX HEAD BOLT
⑦	2	5/16 SPLIT WASHER
⑧	4	1/2" THREADED ROD
⑨	8	1/2" SPLIT WASHER
⑩	12	1/2" NUT

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ANTENNA SPECIFICATIONS

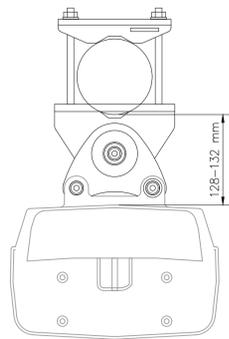
ANTENNA SPECIFICATIONS

NOT USED

ANTENNA MOUNTING DETAIL

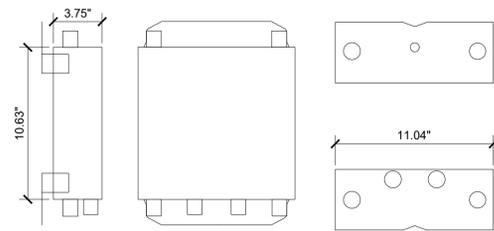
ERICSSON - AIR6449 N77 MOUNTING

TYPE NO.	85010070
NAME	AIR CLAMP KIT 55-115 mm
STATUS	BESTELT
SUITABLE MAST DIAMETER	55-115 mm
ANTENNA - MAST DISTANCE F	128-132 mm
NUMBER OF PIECES	2 CLAMPS
MATERIAL:	HOT DIPPED GALV. STL
CLAMP	HOT DIPPED GALV. STL / STAINLESS STEEL
SCREWS	STAINLESS STEEL
NUTS	STAINLESS STEEL
WEIGHT	4.3 KG.



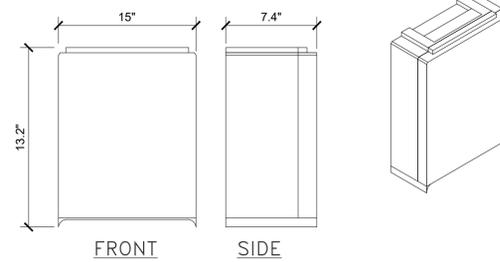
CCI - TMABPD7812VG12A

DIMENSIONS (LxWxD): 10.63 x 11.04 x 3.75 INCHES
(270 x 280 x 95 mm)
WEIGHT: 25 lb / 11.3 kg (CLAMPS NOT INCL.)
26 lb / 11.8 kg (CLAMPS INCL.)



ERICSSON B14 4478 RRH

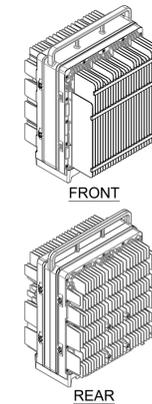
DIMENSIONS, WxDxH: 15" x 13.2" x 7.4"
POWER CONSUMPTION: 4 x 40W FOR 4T4R OR 2 SECTORS AT 2x40W FOR 2T2R
WEIGHT: 60 LBS.
ONE CPRI CONNECTION PER RRH



ERICSSON - RADIO 8843

MECHANICAL SPECIFICATIONS
CAPACITY: 4 ANTENNA PORTS 4TX/4RX
DIMENSIONS (WxDxH): 18" x 13.2" x 11.3"
WEIGHT: 75 LBS.
MOUNTING: WALL AND POLE MOUNT
ALARM: 2 EXTERNAL ALARMS

ELECTRICAL SPECIFICATIONS:
POWER SUPPLY: -48 VDC OR 100-250 VAC
POWER OUTPUT: 320 WATTS
MAX HEAT DISSIPATION: 1.2 kW
MINIMUM AC FUSE RATING: 12 AMP



LICENSEE:

NOT FOR CONSTRUCTION

ANTENNA MOUNTING DETAIL

TMA

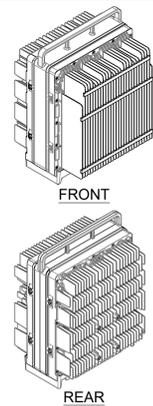
RRUS-4478 B14 SPECIFICATIONS

RRUS-8843 SPECIFICATIONS

ERICSSON - RADIO 4449

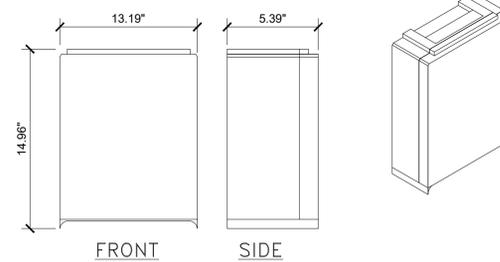
MECHANICAL SPECIFICATIONS
CAPACITY: 4 ANTENNA PORTS 4TX/4RX
DIMENSIONS (WxDxH): 15" x 13.2" x 9.3"
WEIGHT: 70 LBS.
MOUNTING: WALL AND POLE MOUNT
ALARM: 2 EXTERNAL ALARMS

ELECTRICAL SPECIFICATIONS:
POWER SUPPLY: -48 VDC OR 100-250 VAC
POWER OUTPUT: 320 WATTS
MAX HEAT DISSIPATION: 1.2 kW
MINIMUM AC FUSE RATING: 12 AMP

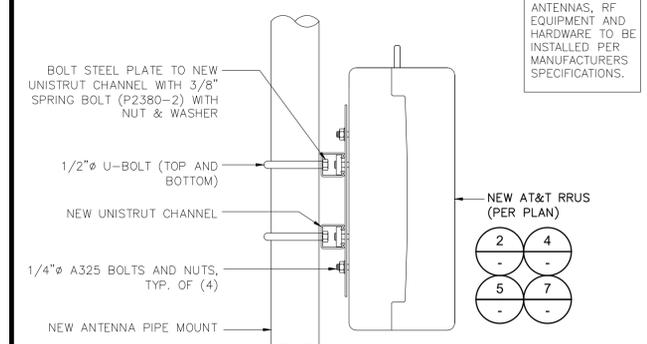


ERICSSON RRUS-4415 B30 & 4415 B25

DIMENSIONS, WxDxH: 13.46" x 5.87" x 16.54"
POWER CONSUMPTION: 4 x 60W
WEIGHT: 44 LBS. EXCL. MOUNTING HARDWARE



RRU MOUNTING DETAIL



PROJECT INFORMATION:

CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:
PANEL ANTENNA AND RRU SPECIFICATIONS

SHEET NUMBER:
A-7

ANTENNA MOUNTING DETAIL

RRUS-4449 B5/B12 SPECIFICATIONS

RRUS-4415 B30/B25 SPECIFICATIONS

RRU MOUNTING DETAIL

EMERSON NETSURE - 512 DC POWER SYSTEM

DC POWER SYSTEM FEATURES:

NOMINAL SYSTEM VOLTAGE: -48 VDC or +24 VDC
 CONTROL: MICROPROCESSOR (ACU+)

RATED OUTPUT CAPACITY - MAXIMUM CONFIGURATION

SYSTEM: 525 amps at -48 VDC plus redundancy
 400 amps at +24 VDC plus redundancy
 RECTIFIER: 2000 watts (41.7 A)
 CONVERTER: 1200 watts (50 A), -48 VDC to +24 VDC
 DISTRIBUTION PANEL (TOP): Wired for (16) +24V and (13) -48 V bullet positions
 (BOTTOM): (30) -48 V bullet positions

ENVIRONMENTAL:

OPERATING TEMPERATURE: -40 °F to 115 °F (-40 °C to 46 °C) continuous operation
 HUMIDITY: 0% to 95% relative humidity, non-condensing

THERMAL SOLUTIONS:

POWER CHAMBER: 2500 watt door-mounted heat exchanger, 2 RU available space for surge protection
 BATTERY CHAMBER: Fan cooled, fresh air ventilation, holds up to (3) battery strings

EQUIPMENT:

GROUND BAR: 10 POSITIONS
 TERMINAL BLOCK: 12-position Phoenix alarm block
 32-position Phoenix alarm bunching block

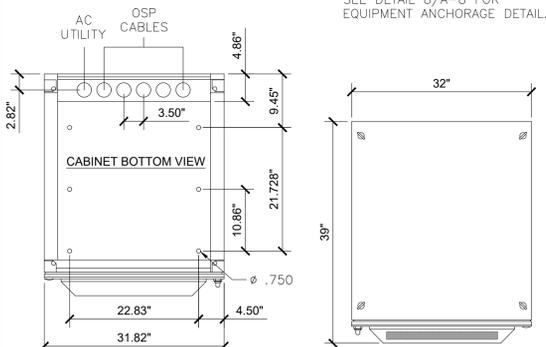
SAFETY:

DC POWER SYSTEM: UL 1801 Listed (US & Canada), NEBS Level 3
 ENCLOSURE: OR-487, UL 60950, and Seismic Zone 4 compliant

MECHANICAL SPECIFICATIONS:

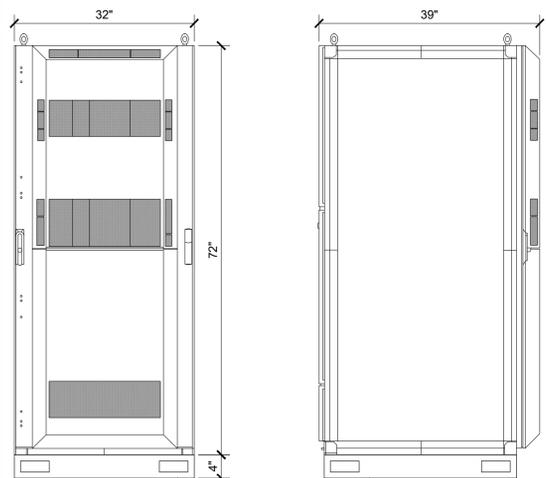
DIMENSIONS: 72"H x 32"W x 39"D
 WEIGHT: 752 lbs.

NOTE
 SEE DETAIL 8/A-8 FOR EQUIPMENT ANCHORAGE DETAIL.



MOUNTING BOLT DOWN PATTERN

PLAN VIEW

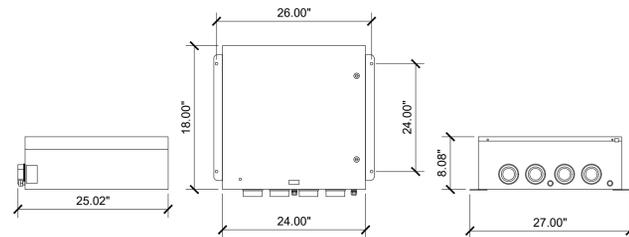


FRONT ELEVATION 4" PLINTH ADDED TO BASE OF CABINET
SIDE ELEVATION

POWER PLANT

RAYCAP DC12-48-60-0-25E

CONNECTION TERMINAL (SUPPRESSION) METHOD: COMPRESSION LUG
 CONNECTION TERMINAL (SUPPRESSION) HARDWIRED: COPPER: #14 TO #2 AWG [2.5 to 35 mm²]
 ALUMINUM: #12 TO #2 AWG [4 to 35mm²]
 FROM C CONTACT CONNECTION (TERMINAL BLOCK) HARDWIRED: #22 TO #12 AWG [.034 to 4mm²]
 OPERATING TEMPERATURE (°C): -40°C TO +100°C
 STORAGE TEMPERATURE (°C): -70°C TO +80°C
 ENCLOSURE TYPE (OUTDOOR): NEMA 4 RATED
 ENCLOSURE DIMENSION (LxWxH): 24"x24"x8" [609.6x609.6x203.2mm]
 WEIGHT: 56.3lbs [25.54kg]

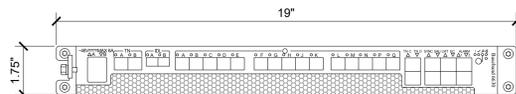


DC12

6

ERICSSON BASEBAND - 6630

DIMENSIONS (HxWxD): 44.45x782.6x350 mm (1.75"x19"x13.78")
 TEMPERATURE: 0 to +55°C
 RELATIVE HUMIDITY: 5-95%
 ABSOLUTE HUMIDITY: 1-29 g/m³

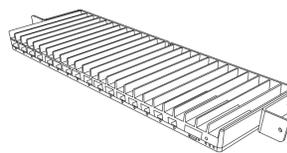


BBU 6630

5

ERICSSON BASEBAND R503 XMU BASEBAND AUXILIARY MULTIPLEXING UNIT

DIMENSIONS (HxWxD): 1.22" x 13.8" x 11"
 (with solar shield and handle)
 WEIGHT: 5 lbs
 HEAD DISSIPATION: 50W



PLATFORM FOR CPRI MULTIPLEXING AND DE-MULTIPLEXING

- 16x SFP+ PORTS
- PLUGGABLE OPTICAL TRANSCEIVERS
- DIRECT ATTACH CABLES
- 48V DC POWERING
- FANLESS
- TARGET RELEASE - L14B
- 2x (10Gbps -> 4x 2.5 Gbps)

BBU XMU03

4

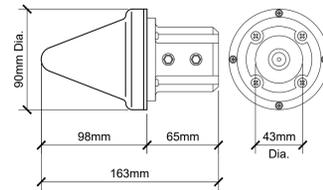
ERICSSON BASEBAND - 5216

DIMENSIONS (WxDxH): 31x280x350 mm (1.22"x11.02"x13.78")
 BBU 5216 CONTAINS BUILT-IN CELL SITE ROUTER FUNCTIONALITY & IS EQUIPPED WITH ETHERNET PORTS FOR TRANSPORT, WHICH CAN BE USED FOR RESILIENCY OR FOR CONNECTING SITE EQUIPMENT.
 TN A: 1x GigE (Gbps Electrical Ethernet) RJ-45 Ethernet port
 TN B and TN C: 2x 1Gbps Electrical/Optical Ethernet (SFP+)
 6x 2.5G TO 10G SFP/SFP+ CPRI PORTS
 2x IDLe PORTS
 BBU 5216 SUPPORTS 2.5 GB, 5 GB AND 10 CPRI CONNECTIONS.

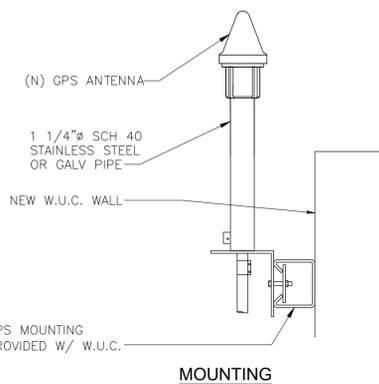


BBU 5216

3



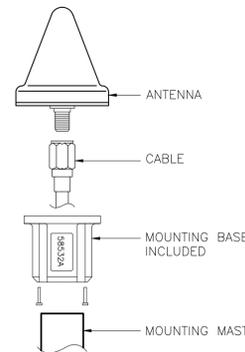
- GPS L1 REFERENCE ANTENNA
- N-TYPE RF CONNECTION (1575.42 MHZ)
- GAIN: 3B DBI TYPICAL @ ELEVATION ANGLE 90°
- REQUIRES +5 VDC POWER (20 MA TYPICAL)
- CLIMATE: OUTDOOR (-40°C TO +85°C)
- WEIGHT
 - 187g ANTENNA WITHOUT MOUNTING BASE
 - 240g MOUNTING BASE (INCLUDED)
- FOR POLE MOUNTING USE 42mm OD TUBE



MOUNTING

NOTES:

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.
3. THE ANTENNA SHOULD NOT BE LOCATED WITHIN 3FT. OF ANY METALLIC WALLS OR OBJECTS IN ANY RADIAL DIRECTION OF THE DUAL BAND OMNI SECTION.



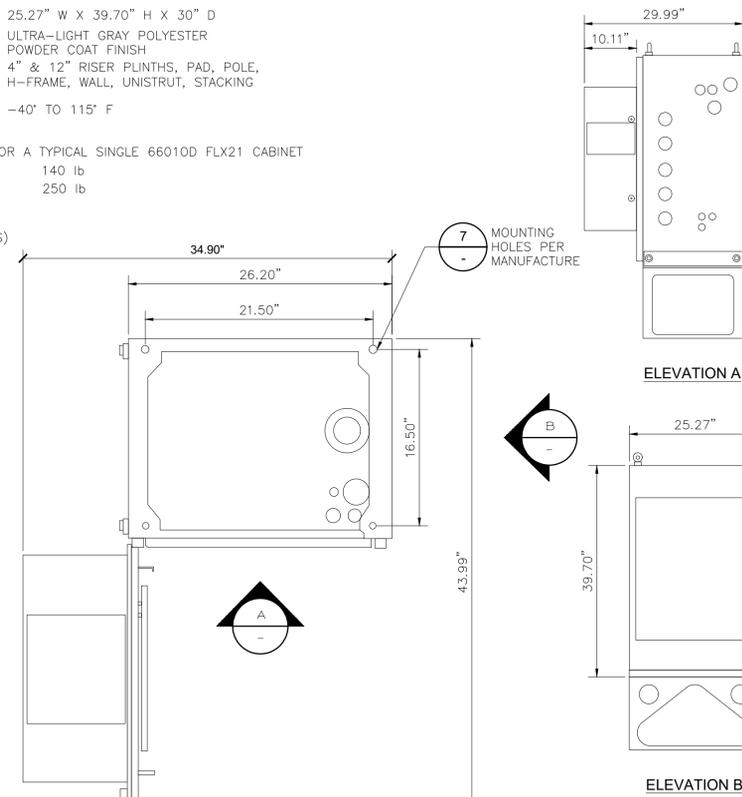
GPS ANTENNA SPECIFICATIONS

2

PURCELL CABINET 66010D FLX21

DIMENSIONS, WxDxH: 25.27" W X 39.70" H X 30" D
 FINISH: ULTRA-LIGHT GRAY POLYESTER POWDER COAT FINISH
 MOUNTING OPTIONS: 4" & 12" RISER PLINTHS, PAD, POLE, H-FRAME, WALL, UNISTRUT, STACKING
 OPERATING TEMPERATURE: -40° TO 115° F
CABINET WEIGHT:
 THIS SPECIFICATIONS ARE FOR A TYPICAL SINGLE 66010D FLX21 CABINET
 EMPTY CABINET: 140 lb
 FULL CABINET: 250 lb
HEAT PAYLOAD:
 1600 WATTS (W/55°C EQPTS)

NOTE:
 SEE DETAIL 8/A-7 FOR EQUIPMENT ANCHORAGE DETAIL.



ELEVATION A

ELEVATION B

APPLICANT:

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 TEL: (949) 553-8566
www.eukongroup.com

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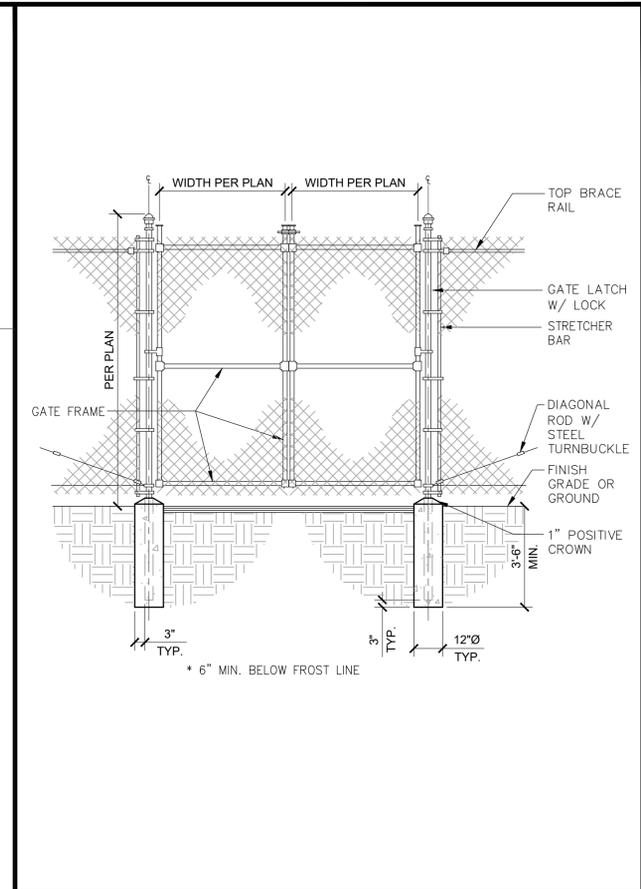
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3	06/17/2021	ANTENNA CHANGE
2	05/28/2021	UPDATED STRUCTURAL
1	03/22/2021	REVISED FIBER PLAN
0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

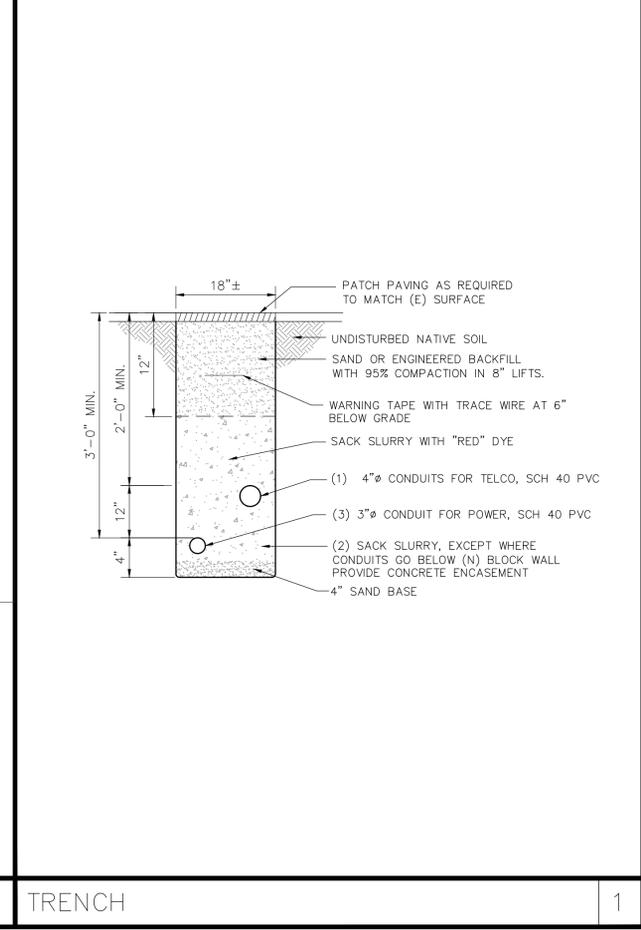

PROJECT INFORMATION:
 CSL05779
 112775 HWY. 395
 COLEVILLE, CA 96107

SHEET TITLE:
 EQUIPMENT DETAILS

SHEET NUMBER:
 A-9

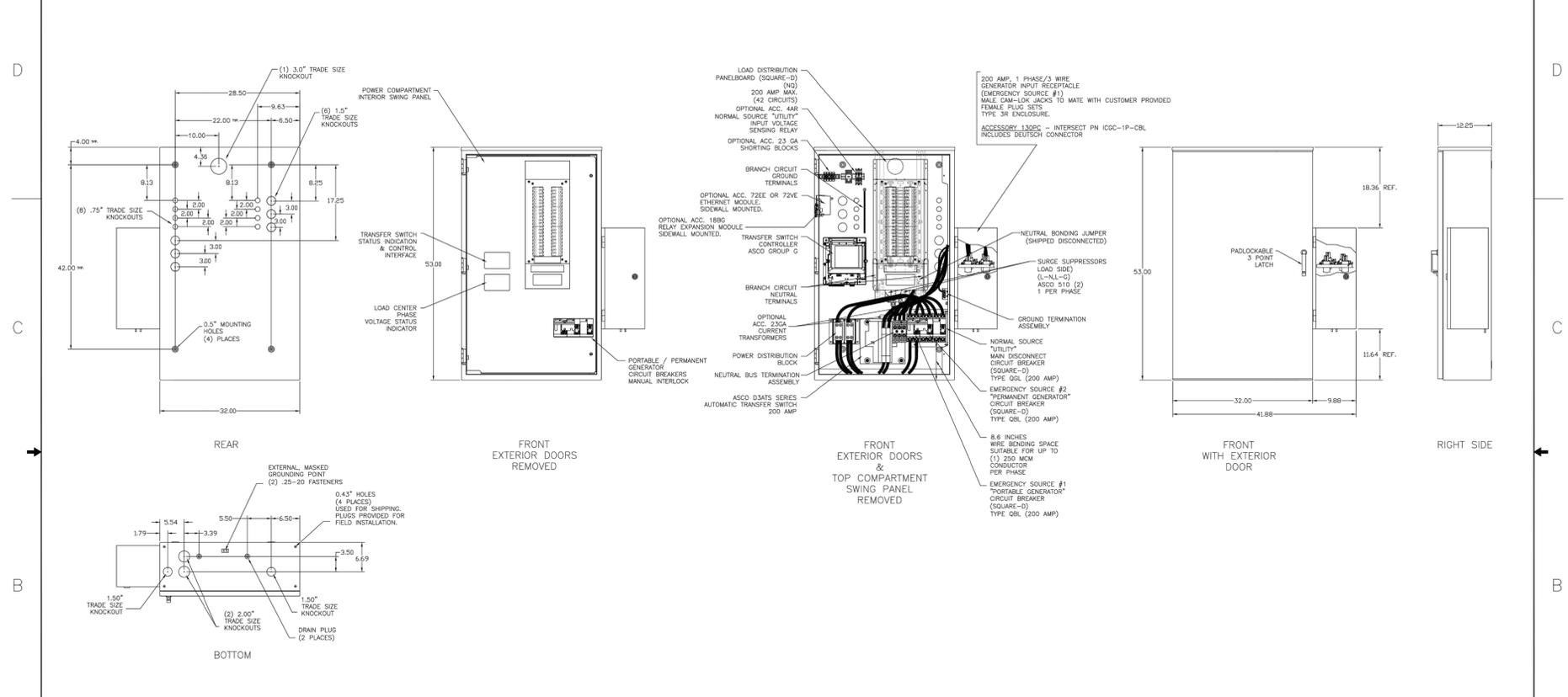


CHAIN-LINK GATE 2



3 TRENCH 1

ASCO D300L Series Power Transfer Load Center Rated 200 Amps, 240 Vac max., Single Phase/3 Wire, Type 3R Enclosure



- Notes:
- Power Transfer Load Center constructed in accordance with UL 87 Standard for Panelboards Suitable for Use as Service Equipment.
 - Automatic Power Transfer Switch: ASCO D3ATS, 2 Pole, 200 Amp, 240 Vac max. UL Listed to UL 1008 Standard for Transfer Switching Equipment. Transfer Controller - ASCO Circo D Automatic Transfer Switch Controller including: Automatic Engine Starting Contacts, Single Phase Voltage Sensing of Normal and Emergency sources, Frequency Sensing of Emergency source.
 - Short Circuit Ratings: Accessory 1170B10 (Standard) (Main): Normal Source - 42KA at 240 Vac max. (Utility Main Disconnect circuit breaker), Square-D Cot. Type QG, 2 Pole, 200 Amps. Emergency Source #1 (Portable Generator Input circuit breaker) - Using Standard App. 1300C Generator Input Receptacle: 10KA at 240 Vac, UL 1008 Listed Transfer Switch Accessory connected to Square-D Cot. Type QG, 2 Pole, 200 Amps. Emergency Source #2 (Permanent Generator Input circuit breaker) - 10KA at 240 Vac, Square-D Cot. Type QG, 2 Pole, 200 Amps. (Branch): Branch ratings as follows when used with the specified branch devices. 42KA using Sq-D QH or QIB rated: 1 pole 15-30A, 2 pole 15-30A, 3 pole 15-30A. 22KA using Sq-D QD-0H or QD-0H rated: 2 pole 15A, 3 pole 3A-10A. 10KA using Sq-D QD or QDB rated: 1 pole 15-70A, 2 pole 15-125A, 3 pole 15-30A.
 - Panelboard: Square-D NO, 225 amp max., 240 Vac, single phase with 100% rated neutral. 42 Circuits, accepts bolt-on or plug-in branch devices.
 - Accessory 4AR (Optional) - Voltage Sensing Relay to indicate the presence of the Normal Source "Utility" voltage ahead of the Normal Source main disconnect circuit breaker, regardless of the position of the circuit breaker.
 - Accessory 11BE (Optional) - A Four-Function Software Bundle that provides the following functions:
 - Serial Communications (RS-485)
 - Programmable Engine Exercise with Battery Back-up
 - Event Log
 - Common alarm signal capability on group G controller "QPI" output.
 - Accessory 1880 (Optional) - Signals the availability of the Normal & Emergency sources when provided. Output contacts "RL5" (Emergency Source Available) and "RL6" (Normal Source Available) change position when the source is acceptable.
 - Accessory 23GA (Optional) - Single Phase Current Sensing Module with current transformers and shunting blocks. Phase current measurements are available for display on the Group G Controller.
 - Accessory 72EE OR 72VE (Optional) - ASCO 5140 Ethernet Connectivity Module. Provides remote ATS and Generator control, Monitoring and Connectivity Features via integrated web page dashboards.
 - Accessory 73T11 (Standard) - Transient Surge Protection - Connected to line side of panelboard for L-N (L-G if used as service equipment) mode protection. ASCO 510 Series TVSS with phase monitoring, alarm module, and load phase voltage availability indicator's (LED).
 - Accessory 117B (Standard) - Generator Selector Circuit Breakers (Emergency Source #1 & Emergency Source #2) - One each two pole, 200A circuit breaker for two separate generator inputs. UL 1008 approved manual slide type interlock to permit connection of only one generator to the transfer switch Emergency Source input.
 - Accessory 130PC (Standard) - Generator Input Receptacle (Emergency Source #1) Rated 320 amps, 1 phase/3 wire with ground. Constructed with male Cam-Lok connectors, 1 per phase, neutral and ground. Color coded (Line 1-Black, Line 2-Red, Neutral-White, ground-Green). Accepts mating female plugs. (Customer provided), for (1) #2-4/0 Cu conductor. Type 3R enclosure with bottom conductor entry, includes Deutsch brand, 12 pin receptacle wired to engine starting signal contacts. UL 1008 Listed transfer Switch Accessory, UL 1008 Listed Withstand Current Rating: 10,000 amps at 240 Vac max. with any molded case circuit breaker.
 - Enclosure: Type 3R Listed to UL 50/SQC & UL 67. Single Compartment Wall Mount Compartment provides Type 1 protection with exterior open and swing panels closed. Box & Doors - Constructed of 0.095 thick aluminum alloy (5052-H32). Finishes - All interior and exterior surfaces: Textured Polyester Powder Coat, Light Gray (RAL 7035)
 - Overall Dimensions: 53"H x 32"W x 12.3"D (excluding side mount receptacles) 53.7H x 41.88"W x 12.3"D (including side mount receptacles)
 - Grounding provisions for Normal, Emergency & Load.
 - Weight: Approx. 200 lbs.

PROJECT NAME: D300L SERIES, SINGLE PHASE, 200 AMP POWER TRANSFER LOAD CENTER		TYPE 3R, ALUM	
DESIGNED BY: DL 06/14	CHECKED BY: JFB 06/14	DATE: 06/14	SCALE: 1"=1'-0"
PROPERTY OF ASCO POWER TECHNOLOGIES. USE RESTRICTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		COMPUTER GENERATED DRAWING	DATE: 06/14
ASCO ASCO POWER TECHNOLOGIES, L.P. FLORENCE PARK, NEW JERSEY 07033 U.S.A.		1015683-004-R	1 OF 1

EUKON AT&T TEMP V2.0

PPC 3 TRENCH 1

GENERAL NOTES

ALL TRADES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST CALIFORNIA BUILDING CODE WITH AMENDMENTS AS ADOPTED BY THE LOCAL JURISDICTIONS, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS WHICH ARE PROVIDED SEPARATELY.

2. BUILDING SHALL NOT BE OCCUPIED DURING REMODEL WORK WHERE: (A) THE BUILDING STRENGTH IS SUBSTANTIALLY WEAKENED AT ANY POINT DURING THE REMODEL WORK. (B) REQUIRED EXITS ARE NOT AVAILABLE OR ARE OBSTRUCTED. (C) REQUIRED FIRE SAFETY DEVICES SUCH AS SPRINKLERS, STAND PIPE OR ALARM SYSTEMS ARE NOT OPERATIONAL.

3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY PROJECT ENGINEER OF RECORD.

4. CONCRETE, MASONRY, AND STRUCTURAL STEEL WORK SHALL BE INSPECTED BY AN INSPECTOR LICENSED BY THE LOCAL JURISDICTION.

5. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD WHICH IS:

- FLOORS 50 PSF (REDUCIBLE)
ROOFS 20 PSF (REDUCIBLE)

6. CONTRACTOR SHALL ERECT NECESSARY BARRIERS, PROTECTION FENCES AND/OR CANOPIES PRIOR TO STARTING CONSTRUCTION.

7. NECESSARY PERMITS SHALL BE SECURED PRIOR TO STARTING CONSTRUCTION.

8. WORKMANSHIP SHALL NOT CAUSE DAMAGE TO EXISTING CONSTRUCTION.

9. ALL DEBRIS SHALL BE REMOVED FROM SITE, LEAVING THE SITE DAILY IN A BROOM-CLEAN CONDITION.

10. THE CONTRACTOR SHALL EXERT EVERY EFFORT TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM CONTAMINATING THE WORK AREA. THESE EFFORTS SHALL INCLUDE BUT NOT BE LIMITED TO PROVIDING A DAILY CLEANUP OF THE CONSTRUCTION AREA AND PROVIDE PLASTIC SHEETING OVER EXISTING EQUIPMENT IF ANY. CONTRACTOR SHALL REFER TO THE PROJECT DETAILED SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS

11. PATCH, REBUILD AND RESTORE CEILINGS, PARTITIONS, PLASTER, PAINT, FINISHES, ETC. DAMAGED OR DEMOLISHED DURING CONSTRUCTION ACTIVITY. REFINISH SURFACES TO MATCH ADJACENT FINISH. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT. RESTORE WORK WITH NEW PRODUCTS.

12. PROVIDE PROTECTION FROM WEATHER AND DUST TO AREAS EXPOSED DUE TO CUTTING AND UNCOVERING OF EXISTING SURFACES.

13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK.

14. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF EUKONGROUP BEFORE PROCEEDING WITH THE WORK INVOLVED.

15. SHOP DRAWINGS ARE NOT AUTOMATICALLY REQUIRED FOR APPROVAL BY THE ENGINEER OF RECORD UNLESS SPECIFICALLY NOTED AS REQUIRED. THIS DOES NOT PRECLUDE THAT OTHERS, SUCH AS THE CLIENT OR CONSTRUCTION MANAGEMENT MAY REQUIRE SOME FORM OF SHOP DRAWINGS.

16. REVIEW OF SHOP DRAWINGS BY STRUCTURAL ENGINEER IS ONLY FOR GENERAL PERFORMANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS AND SHALL NOT BE CONSTRUED AS ACCEPTING RESPONSIBILITY FOR SAFE CONSTRUCTION PRACTICES.

17. SHOP DRAWINGS ARE AN AID FOR THE FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS. THE CONTRACTOR'S RESPONSIBILITY ALSO INCLUDES BUT IS NOT LIMITED TO DIMENSIONS BEING CONFIRMED AND CORRELATED AT THE JOB SITE. EUKONGROUP SHALL BE NOTIFIED IN WRITING IF ANY DISCREPANCIES ARE FOUND.

18. NO CHANGES SHALL BE MADE TO THE DESIGN, UNLESS APPROVED BY THE ENGINEER OF RECORD. DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE REQUESTED IN WRITING PRIOR TO SUBMITTING SHOP DRAWINGS. APPROVED DEVIATIONS SHALL BE CLEARLY HIGHLIGHTED ON SHOP DRAWINGS SUBMITTED FOR REVIEW.

19. USE OF AN APPROVED ALTERNATE MATERIAL UNDER AN ICBO MUST INCORPORATE ALL THE SPECIFIED PROCEDURES, CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS ON THE PLANS.

20. THE OWNER SHALL RETAIN THE SERVICES OF A TESTING LABORATORY AND INSPECTION AGENCY AS SPECIFIED HEREIN AND AS REQUIRED BY THE CBC.

STRUCTURAL WOOD

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR - LARCH #1 GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLA, WMPA, OR WCLB), UNLESS NOTED OTHERWISE.

2. PLYWOOD SHEATHING SHALL BE DOUGLAS FIR CONFORMING TO THE LATEST "PRODUCT STANDARD PSI", AND SHALL BE GRADE MARKED BY APA.

3. CUTTING, NOTCHING OR DRILLING OF BEAMS OR JOISTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER OF RECORD.

4. ALL BOLTS FOR WOOD CONNECTIONS SHALL BE A307, GRADE A.

5. CONNECTOR DESIGNATIONS REFER TO STRONG-TIE CONNECTORS BY SIMPSON COMPANY, BREA, CALIFORNIA, UNLESS NOTED OTHERWISE. NAILING SHALL FOLLOW THE MINIMUM REQUIREMENT BELOW:

(A) USE COMMON WIRE NAILS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE. SINKER NAILS ARE NOT ALLOWED. SEE HANGER MANUFACTURER FOR NAIL SIZES AND QUANTITY.

(B) SHORT NAILS SHALL NOT BE USED TO NAIL CONNECTORS THROUGH PLYWOOD.

6. SILLS AND PLATES RESTING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR. BOLTS SHALL BE 5/8 INCH MINIMUM DIAMETER EMBEDDED AT LEAST 9 INCHES INTO THE CONCRETE OR MASONRY AND SPACED NOT MORE THAN 4 FEET APART. THERE SHALL BE A MINIMUM OF 2 BOLTS PER PIECE WITH 1 BOLT LOCATED WITHIN 9 INCHES OF EACH END OF EACH PIECE.

7. PREDRILL ALL HOLES FOR 20d NAILS AND LAG BOLTS.

8. BOLTS, HEADS AND NUTS BEARING ON WOOD SHALL HAVE METAL WASHERS. BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" TO 1/16" DIAMETER LARGER THAN NOMINAL BOLT DIAMETER.

9. LAG BOLTS SHALL HAVE LEAD HOLES BORED BEFORE DRIVING. HOLE DIAMETERS TO BE AS FOLLOWS:

(A) SHANK PORTION - SAME DIAMETER AND LENGTH AS SHANK.

(B) THREAD PORTION - 0.60 TO 0.75 DIAMETER OF THREAD AND SAME LENGTH.

10. NAIL ALL 2X DOUBLE STUDS WITH 16d NAILS AT 12 INCHES ON CENTER, STAGGERED, MINIMUM 1" EDGE DISTANCE, UNLESS NOTED OTHERWISE.

11. ALL BREAKS IN DOUBLE PLATES FOR VENTS, DUCTS AND PLUMBING SHALL BE STRAPPED AS PER TYPICAL DETAIL.

12. FASTENING SCHEDULE SHALL FOLLOW TABLE 2304.9.1 OF 2010 CBC OR THE LATEST UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLAN.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION" AND CONFORM TO:

- (A) STRUCTURAL SHAPES AND PLATES: ASTM A36 & ASTM 992
(B) TUBES: ASTM A500, GRADE B, FY = 46 KSI
(C) PIPES: ASTM A53, GRADE B, FY = 35 KSI
(D) ELECTRODES : AWS D1.1, CLASS E70XX
(E) STRUCTURAL FASTENERS:

HIGH STRENGTH BOLTS: ASTM A325 OR A490 AS INDICATED MACHINE BOLTS: ASTM A307

2. ANCHOR BOLTS CAST IN CONCRETE:
(A) THREADED RODS: ASTM A36
(B) ANCHOR BOLTS: ASTM A307

3. SHEAR STUDS: ASTM A108 (AISC MANUAL)

4. STEEL FABRICATOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. STEEL FABRICATOR TO COORDINATE WITH MECHANICAL SUBCONTRACTOR FOR THE SIZE, LOCATION AND DIMENSIONS OF THE MECHANICAL UNITS AND OPENINGS.

5. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.

6. ALL STEEL SHALL BE FABRICATED AND ERECTED BY A CITY APPROVED AND ICC LICENSED STEEL FABRICATOR.

7. ALL WELDING SHALL BE DONE BY AMERICAN WELDING SOCIETY (AWS) AND CERTIFIED WELDERS USING AN ELECTRIC ARC PROCESS. CONTINUOUS INSPECTION IS REQUIRED FOR ALL FIELD WELDING.

8. MILL REPORTS SHALL BE FURNISHED TO THE CITY FOR ALL STRUCTURAL STEEL MEMBERS OR OTHER RECORDS ATTESTING THAT THE SPECIFIC GRADE CONFORMS TO CALIFORNIA BUILDING CODE STANDARD 27-1. OTHERWISE, TESTING OF MATERIALS WILL BE REQUIRED.

9. HIGH STRENGTH BOLTS INSTALLED AS BEARING BOLTS [A-325N] SHALL BE TORQUED TO SLIP CRITICAL TENSION REQUIREMENTS AS DEFINED BY THE LATEST PUBLICATION OF "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS" SECTIONS 8C.

10. HIGH STRENGTH BOLTS REQUIRED TO BE SLIP CRITICAL [A325 OR A490] CAN BE INSTALLED BY USE OF DIRECT TENSION INDICATOR IN CONFORMANCE WITH THE LATEST ASTM F959, OR CAN BE TENSION SET. CONTINUOUS INSPECTION IS REQUIRED DURING ALL SLIP CRITICAL HIGH STRENGTH BOLT INSTALLATIONS AND TIGHTENING OPERATIONS. INSTALLATION SHALL BE CHECKED BY TORQUE WRENCH, CALIBRATED IN THE FIELD BY A DEVICE CAPABLE OF MEASURING DIRECT TENSION BOLTS.

11. ALL STRUCTURAL STEEL ERECTED WITH ANCHOR BOLTS SHALL BE PLUMBED AND LEVELED TO FINAL POSITION WITH DOUBLE NUTS. NO LEVELING PLATES SHALL BE USED.

12. ALL STRUCTURAL STEEL SURFACES TO BE WELDED OR HIGH STRENGTH BOLTED, TO BE ENCASED IN CONCRETE, TO RECEIVE SPRAY APPLIED FIREPROOFING, OR TO BE ENCLOSED BY FINISH MATERIALS, SHALL BE LEFT UNPAINTED.

13. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER, I.E. MECHANICAL PLATFORMS AND ROOF TOP EQUIPMENT SUPPORTS, SHALL BE HOT DIPPED GALVANIZED. ANY WELDING PERFORMED ON GALVANIZED MEMBERS SHALL BE TOUCHED UP WITH ZINC RICH PAINT IN THE FIELD.

14. ALL OTHER STRUCTURAL STEEL SHALL HAVE A SHOP COAT OF APPROVED PAINT.

15. ALL NEW STEEL SHALL BE CLEANEED FREE OF RUST, LOOSE MILL SCALE AND OIL AFTER FABRICATION, THEN GIVEN ONE SHOP COAT OF RUST INHIBITIVE PRIMER. ALL UNPAINTED SURFACES AND SURFACES WHERE PAINT HAS BEEN DAMAGED AND/OR MARKED SHALL BE GIVEN A FIELD TOUCH-UP COAT OF PRIMER USED FOR THE SHOP COAT.

16. SHOP DRAWINGS ARE NOT AUTOMATICALLY REQUIRED FOR APPROVAL BY THE ENGINEER OF RECORD UNLESS SPECIFICALLY NOTED AS REQUIRED. THIS DOES NOT PRECLUDE THAT OTHERS, SUCH AS THE CLIENT OR CONSTRUCTION MANAGEMENT MAY REQUIRE SOME FORM OF SHOP DRAWINGS.

FIBER REINFORCED PLASTIC (FRP):

A. THIS SECTION INCLUDES THE FOLLOWING FRP PRODUCTS AND FABRICATIONS:

- 1. FRP STRUCTURAL SHAPES
2. FRP GRATINGS AND FRAMES
3. FRP FOAM CORE BUILDING PANELS AND SOLID FRP PANELS

B. FRP WALL PANEL SYSTEMS ARE TO MEET THE FOLLOWING REQUIREMENTS:

1. ALL FRP PRODUCTS TO BE FIBERGRATE IN ACCORDANCE WITH LOS ANGELES CITY RESEARCH REPORT 25536 OR STRONGWELL IN ACCORDANCE WITH LOS ANGELES CITY RESEARCH REPORT 25698.

2. PANELS ARE TO MATCH THE EXISTING BUILDING COLOR AND TEXTURE TO THE SATISFACTION OF EUKONGROUP, LEASE OWNER AND LANDLORD (OR OWNER).

3. PANEL SYSTEM MUST BE ABLE TO SPAN BETWEEN SUPPORTS PROVIDED AND RESIST A DESIGN WIND LOAD OF 25 POUNDS PER SQUARE FOOT (OR LARGER) PERPENDICULAR TO THE PANEL SURFACE WITH A MAXIMUM DEFLECTION RATIO OF L/60.

4. ACCEPTABILITY OF THE PANEL RF TRANSPARENCY IS SUBJECT TO THE APPROVAL OF LEASE OWNER.

5. REFER TO PROJECT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

C. ALL FRP PRODUCTS SPECIFIED IN THESE DESIGN DRAWINGS SHALL BE AS FOLLOWS:

1. STRUCTURAL SHAPES AND PLATE: FIBERGRATE DYNIFORM OR STRONGWELL. ALL STRUCTURAL SHAPES SHALL CONSIST OF A GLASS FIBER REINFORCED POLYESTER OR VINYL ESTER RESIN MATRIX, APPROXIMATELY 50% RESIN TO GLASS RATIO. GLASS STRAND ROVING SHALL BE USED IN THE LONGITUDINAL DIRECTION AND CONTINUOUS STRAND MATS SHALL BE USED FOR TRANSVERSE REINFORCEMENT.

2. FASTENERS: WHERE SPECIFIED AS FRP FASTENERS SHALL BE FIBERGRATE THREADED ROD AND NUTS. TYPICALLY BOLTS WITHIN THE AREA OF THE ANTENNA SIGNAL TO BE FRP. ALL OTHER BOLTS TO BE ASTM A307.

D. ALL FRP PRODUCTS SHALL BE MANUFACTURED USING THE PULTRUDED PROCESS UTILIZING EITHER AN ISOPHTHALIC POLYESTER OR VINYL ESTER RESIN WITH FLAME RETARDANT AND ULTRAVIOLET (UV) INHIBITOR ADDITIVES. A SYNTHETIC SURFACE VEIL SHALL BE THE OUTERMOST LAYER COVERING THE EXTERIOR SURFACE.

E. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO INSTALL THE FRP PRODUCTS AS SPECIFIED HEREIN.

F. SHOP DRAWINGS ARE NOT AUTOMATICALLY REQUIRED FOR APPROVAL BY THE ENGINEER OF RECORD UNLESS SPECIFICALLY NOTED AS REQUIRED. THIS DOES NOT PRECLUDE THAT OTHERS, SUCH AS THE CLIENT OR CONSTRUCTION MANAGEMENT MAY REQUIRE SOME FORM OF SHOP DRAWINGS.

- 1. DIMENSIONS
2. ERECTION INSTRUCTIONS AND SECTIONAL ASSEMBLIES
3. LOCATION AND IDENTIFICATION MARKS
4. SIZE AND TYPE OF SHORING OR TEMPORARY SUPPORT FRAMING
5. MATERIAL SPECIFICATIONS AND SUPPORTING DATA AS NECESSARY

G. CONTRACTOR MAY BE REQUIRED TO SUBMIT SAMPLES OF SPECIFIC PRODUCTS FOR APPROVAL PRIOR TO INSTALLATION AND PLACEMENT OF PURCHASE ORDERS.

H. ALL CUT ENDS, HOLES AND ABRASIONS OF FRP SHAPES AND MEMBERS SHALL BE SEALED WITH A COMPATIBLE RESIN COATING TO PREVENT INTRUSION OF MOISTURE AND PREMATURE FRAYING.

I. FRP CONNECTION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

1. FOAM CORE PANEL CONNECTIONS: PANELS SHALL BE DESIGNED FOR TONGUE-IN-GROOVE JOINT CONNECTIONS ON TWO PARALLEL SIDES PER PANEL. PANELS CAN BE FASTENED TO THE STRUCTURE WITH A COMPATIBLE EPOXY ADHESIVE AND/OR STAINLESS STEEL OR FIBERGLASS FASTENERS AS APPROPRIATE.

2. STRUCTURAL MEMBER CONNECTIONS:

I. ALL FIBERGLASS NUTS AND STUDS ARE TO BE LUBRICATED WITH EITHER A LIGHT OIL, DRY LUBRICANT OR SILICONE SPRAY.

II. ALL CONNECTIONS TO BE TORQUED TO THE FOLLOWING REQUIREMENTS:

- 3/8" BOLT ----- 4 FT-LBS
1/2" BOLT ----- 8 FT-LBS
5/8" BOLT ----- 16 FT-LBS
3/4" BOLT ----- 24 FT-LBS
1" BOLT ----- 50 FT-LBS

III. ALL BOLTS TO BE TORQUED USING A CALIBRATED TORQUE WRENCH.

IV. FIBERGLASS STUD/NUT ASSEMBLIES SHALL BE BONDED TO INSURE THAT THE NUTS DO NOT LOOSEN. THIS CAN BE ACCOMPLISHED BY APPLYING A THICK LAYER OF ADHESIVE OR RESIN TO OVER THE EXPOSED ASSEMBLY.

V. STRUCTURAL CONNECTION UNLESS OTHERWISE NOTED IN THE DESIGN DRAWINGS RELY ON A COMBINATION OF BOLT BEARING AND ADHESIVE BONDING. EPOXY ADHESIVES RECOMMENDED FOR CONNECTIONS ARE SHELL 828 EPOXY RESIN, DOW D.E.R. 331 EPOXY RESIN OR FIBERGRATE EPOXY ADHESIVE. SAND MATING SURFACES WITH 120 GRIT SANDPAPER TO REMOVE POLYESTER SURFACING VEIL AND CLEAN JOINING SURFACES WITH A COMPATIBLE SOLVENT PRIOR TO BONDING. JOINTS SHOULD BE PROPERLY CLAMPED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND HELD IN POSITION FOR AT LEAST 48 HOURS (AT 70 DEGREES, REFER TO MANUFACTURER TO OTHER TEMPERATURES) BEFORE DESIGN LOAD CAN BE APPLIED.

VI. MINIMUM EDGE DISTANCE OF FASTENERS TO THE SIDE OF MEMBER SHALL BE ONE AND A HALF DIAMETERS AND TWO DIAMETERS TO THE MEMBER END (OR MINIMUM OF 1.5"). MINIMUM BOLT SPACING TO BE FOUR DIAMETERS.

J. PROCEDURE FOR MAKING STRUCTURAL EPOXY JOINTS:

I. MATERIALS USED: STRONGWELL EPOXY ADHESIVE BASE STRONGWELL EPOXY ADHESIVE HARDENER SMALL WAX COATED PAPER CUP FOR MIXING CLEAN WOODEN OR FRP STICK FOR MIXING 120 GRIT SANDPAPER CLAMPS FOR HOLDING EPOXY JOINTS DURING CURE CLEAN CLOTH

II SURFACE PREPARATION
1. SAND MATING SURFACES WITH 120 GRIT SANDPAPER UNTIL THE SURFACE GLOSS HAS BEEN REMOVED, THE SURFACING VEIL MUST BE GROUND OFF TO EXPOSE THE GLASS REINFORCEMENT. SAND BLASTING EQUIPMENT CAN ALSO BE USED.
2. REMOVE ALL DUST WITH A CLEAN CLOTH; AIR BLASTING EQUIPMENT MAY ALSO BE USED. AVOID RECONTAMINATION OF THE SURFACE FROM HANDLING.

III MIXING OF EPOXY
MIX EQUAL VOLUME PORTIONS OF THE BASE AND HARDENER IN A SMALL WAX COATED PAPER CUP WITH A CLEAN STICK UNTIL A UNIFORM GRAY COLOR IS ATTAINED AND ALL MARBLED APPEARANCE IS GONE.

NOTE: OTHER ADHESIVE SYSTEMS COMPATIBLE WITH FIBERGLASS CAN BE UTILIZED AND THE MANUFACTURER'S MIXING INSTRUCTIONS FOR THESE SYSTEMS SHOULD BE FOLLOWED.

IV APPLICATION AND CURE
1. APPLY THE MIXED EPOXY UNIFORMLY TO ALL SURFACES TO BE JOINED. A THIN APPLICATION IS OFTEN MORE BENEFICIAL THAN A THICK APPLICATION.
2. AVOID INTRODUCING MOISTURE INTO THE JOINT.
3. JOIN THE SURFACE TO BE BONDED, THE POT LIFE AT 77°F FOR A 3 OZ. MIXTURE OF EQUAL VOLUMES OF BASE AND HARDENER IS 2.5 HOURS.
4. SECURE THE JOINT WITH CLAMPS (OR RIVETS OR BOLTS) AND ALLOW 24 HOURS FOR A FULL CURE. THE ASSEMBLY CAN OFTEN BE HANDLED WITH REASONABLE CARE IN LESS THAN 8 HOURS. THE STRUCTURE SHOULD NOT BE REQUIRED TO SUPPORT ITS DESIGN LOAD UNTIL AT LEAST 48 HOURS (AT 70°F) AFTER BONDING. LOWER TEMPERATURES REQUIRE A LONGER CURE.
5. AFTER SECURING THE JOINT, WIPE AWAY EXCESS POXY.

WELDING

1. ALL STRUCTURAL STEEL WELDING SHALL BE AS PER LATEST EDITION OF THE AMERICAN WELDING CODE (AWS) D1.1. ELECTRODE TO BE USED IS E 70XX. WELD LENGTHS SHOWN ARE EFFECTIVE LENGTH PER THE LATEST EDITION OF THE AWS. WHERE LENGTHS ARE NOT SHOWN, THE WELD SHALL BE FULL LENGTH OF JOINT.

2. ALL WELDING OF REINFORCING STEEL SHALL BE PER THE LATEST EDITION OF AWS D14.

3. CONTINUOUS INSPECTION IS REQUIRED FOR ALL WELDING. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATIONS FROM THE AWS AND THE CITY FOR WELDING OF STRUCTURAL STEEL.

4. ALL FULL PENETRATION WELDS SHALL BE TESTED BY NONDESTRUCTIVE METHODS (ULTRASONIC OR RADIOGRAPHIC TESTING). ALL RADIOGRAPHIC OPERATIONS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 17 - HEALTH; RADIATION CONTROL REGULATIONS. COORDINATION WITH OWNER RADIATION SAFETY OFFICER SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY RADIOGRAPHIC OPERATIONS. A COPY OF ALL RADIATION SAFETY SURVEY/MONITORING LOGS SHALL BE FURNISHED TO OWNER.

5. REMOVE EXISTING PAINT ON EXISTING STEEL ELEMENTS BEFORE WELDING TO EXISTING STEEL.
6. THE CONTRACTOR SHALL COMPLY WITH ALL FIRE REGULATIONS DURING WELDING OPERATIONS WHERE FLAMMABLE ELEMENTS EXIST AND SHALL ALSO PROVIDE TEMPORARY PROTECTIVE SHIELDS OF ACCEPTABLE NON-FLAMMABLE MATERIALS AS REQUIRED TO PROTECT THE EXISTING BUILDING ELEMENTS FROM FIRE. IN ORDER TO AVOID ANY FIRE HAZARD, REMOVE TEMPORARILY ALL EXISTING WOOD ELEMENTS IN THE CLOSE VICINITY OF THE NEW WELDING OPERATIONS AND REINSTALL THEM AFTERWARDS TO THE ORIGINAL CONDITION. CONTRACTOR MUST OBTAIN A WELD OR BURN PERMIT FROM THE OWNER'S REPRESENTATIVE AT BEGINNING OF EACH WORK SHIFT.

INSPECTIONS:

1. CONTRACTOR SHALL KNOW AND COMPLY WITH REQUIREMENTS OF GOVERNING AGENCY BY INFORMING BUILDING DEPARTMENT WHEN REQUIRED INSPECTIONS ARE TO TAKE PLACE.

2. INSPECTIONS ARE REQUIRED FOR:

- * ALL STRUCTURAL STEEL WORK
* ALL CONCRETE WORK
* ALL MASONRY WORK
* ALL REINFORCING STEEL
* ALL EXCAVATIONS

3. SPECIAL INSPECTIONS

A) THE OWNERS SHALL EMPLOY SPECIAL INSPECTORS WHO SHALL PROVIDE ADDITIONAL INSPECTIONS DURING CONSTRUCTION IN ACCORDANCE WITH CBC CHAPTER 17.
B) ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY, LICENSED AND APPROVED BY THE BUILDING DEPARTMENT.
C) ALL INSPECTIONS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED.

D) THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTIONS REPORTS DIRECTLY TO THE ARCHITECT, EUKONGROUP, AND BUILDING DEPARTMENT.

E) ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND EUKONGROUP FOR PROPER ACTION.
F) TYPE OF WORK LISTED BELOW REQUIRES CONTINUOUS SPECIAL INSPECTION U.N.O.:

CONCRETE:
CONCRETE PLACEMENT:.....CONTINUOUS
REBAR PLACEMENT.....FINAL PLACEMENT
REBAR WELDING.....CONTINUOUS
REBAR COUPLING.....10% WITH TORQUE WRENCH
ANCHOR BOLTS AND INSERTS.....CONTINUOUS
BATCH PLANT INSPECTIONS.....PERIODIC
GUNITE/SHOTORETE PLACEMENT.....CONTINUOUS
EXPANSION ANCHOR INSTALLATION.....CONTINUOUS
EPOXY ANCHOR INSTALLATION.....CONTINUOUS
MASONRY:
UNIT LAYUP.....PERIODIC
GROUT PLACEMENT.....CONTINUOUS
REBAR PLACEMENT.....PERIODIC

STRUCTURAL STEEL:
FILLET WELD FIELD WELDING.....CONTINUOUS
FULL PENETRATION FIELD WELDING.....CONTINUOUS
PARTIAL PENETRATION FIELD WELDING.....CONTINUOUS
HIGH STRENGTH BOLTING.....CONTINUOUS
WELDED ANCHORS OR STUDS.....CONTINUOUS
METAL DECK WELDING.....CONTINUOUS

LUMBER:
FLOOR / ROOF SHEATHING NAILING.....PERIODIC
SHEAR WALL SHEATHING NAILING.....PERIODIC
GLUE-LAMINATED BEAMS/COLUMNS.....FABRICATION
WOOD "I" JOISTS AND O.W. JOISTS.....FABRICATION
ANCHOR BOLTS/HOLD-DOWNS.....PER CBC
METAL STRAP PLACEMENT.....PER CBC

4. A COMPLETE RECORD OF INSPECTION REPORTS SHALL BE RETAINED BY THE INSPECTOR FOR AT LEAST 2 YEARS AFTER COMPLETION OF THE PROJECT, AND MADE AVAILABLE FOR INSPECTION DURING THE PROGRESS OF THE WORK. SUBMITTALS

5. THE FOLLOWING SUBMITTALS SHALL BE COORDINATED WITH ARCHITECT FOR SUBMITTAL TO EUKONGROUP FOR REVIEW 10 WORKING DAYS BEFORE START OF WORK REQUIRING SUBMITTALS.

A. SHOP DRAWINGS.

B. MIX DESIGN OF CONCRETE.

C. MIX DESIGN OF MASONRY GROUT.

D. DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS.

E. MATERIAL SPECIFICATIONS INCLUDING BUT NOT LIMITED TO NON-SHRINK GROUT, CURING COMPOUND, ANCHOR BOLTS, ETC.

F. TEST REPORTS INCLUDING BUT NOT LIMITED TO TEST RESULTS OF CONCRETE, EPOXY ANCHORS TO EXISTING CONCRETE AND ULTRASONIC TESTING FOR FULL PENETRATION WELDS SHALL BE SUBMITTED TO OWNER WITHIN 3 DAYS OF COMPLETION OF WORK.

G. WELDING PROCEDURE SPECIFICATIONS (WPS).

GENERAL CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE ON PLANS.

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

- CONCRETE CAST AGAINST EARTH3 IN.
CONCRETE EXPOSED TO EARTH
OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1 1/2 IN.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

- SLAB AND WALL3/4 IN.
BEAMS AND COLUMNS1 1/2 IN.

5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SPECIAL INSPECTIONS, WHEN REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

APPLICANT:
The new at&t
1452 EDINGER AVENUE,
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:
Eukon
an SFC Communications, Inc. Company
65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

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Table with 3 columns: REV, DATE, DESCRIPTION. Includes revision history for RF COMMENTS, RAD CENTER REVISION, SBA COMMENTS, ANTENNA MOUNTING, 100% CONSTRUCTION DRAWING, ANTENNA CHANGE, UPDATED STRUCTURAL, REVISED FIBER PLAN, 90% CONSTRUCTION DRAWING.

LICENSEE:
NOT FOR CONSTRUCTION

PROJECT INFORMATION:
CSL050779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:
STRUCTURAL NOTES

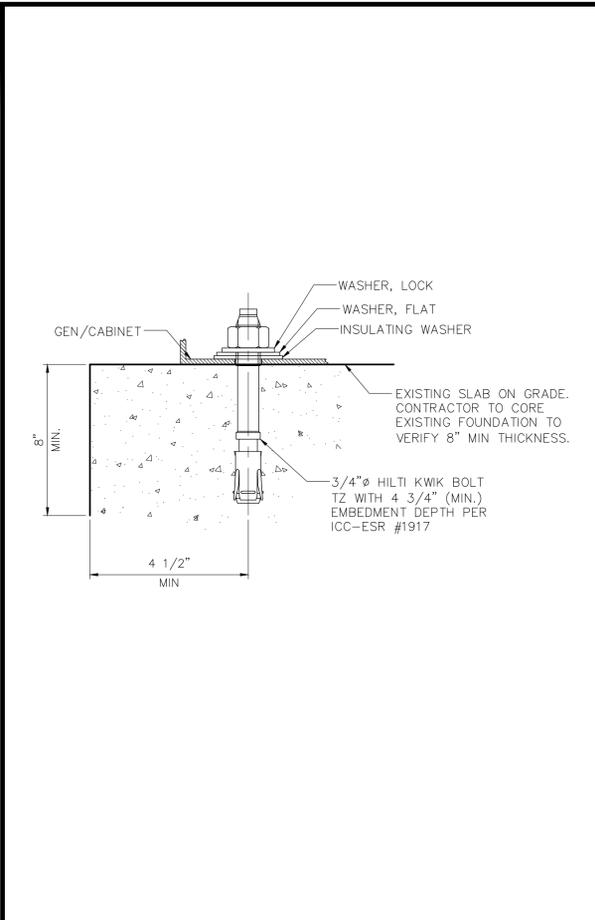
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S-1



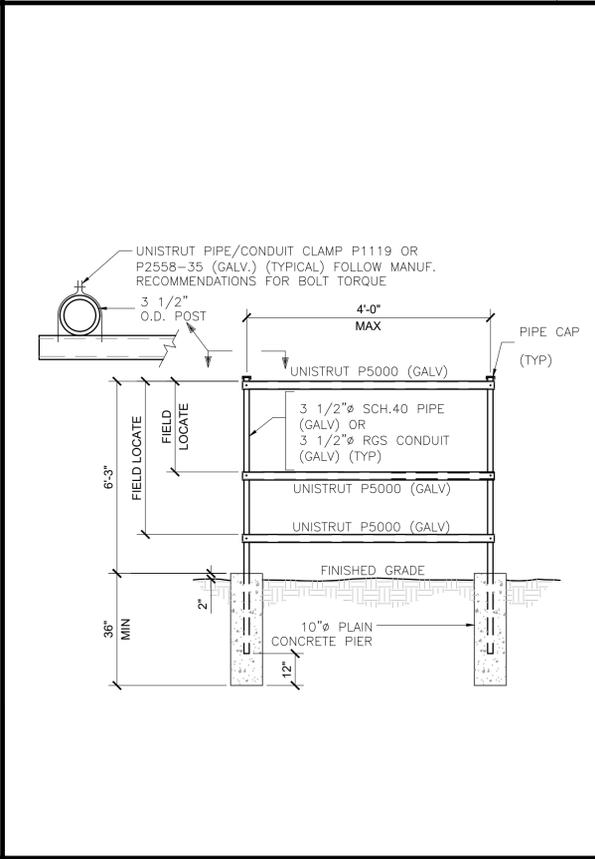
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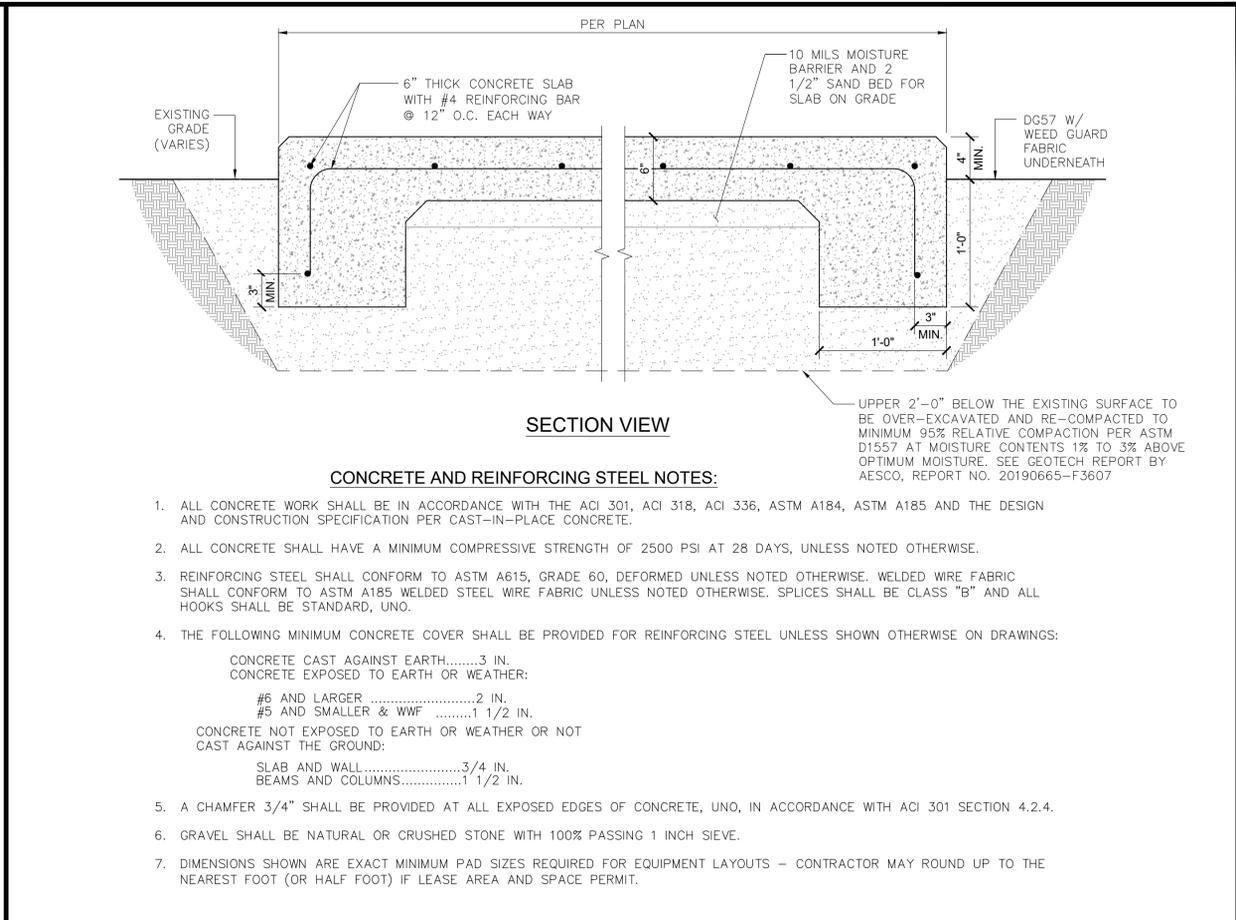
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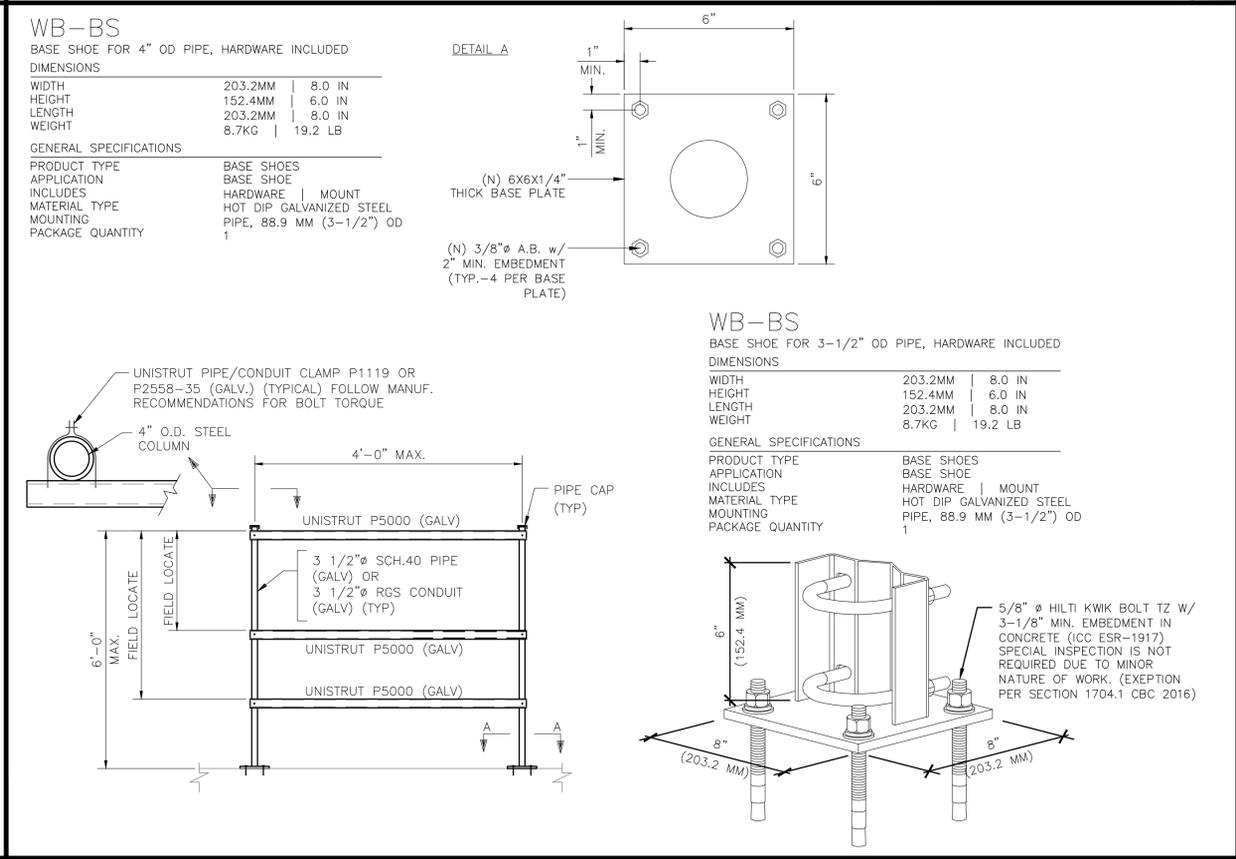
6 CONCRETE ANCHORAGE



5 UTILITY H-FRAME



4 CONCRETE PAD



3 UTILITY H-FRAME

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3RD FLOOR
TUSTIN, CA 92780

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REVISIONS:		
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2	05/28/2021	UPDATED STRUCTURAL
1	03/22/2021	REVISED FIBER PLAN
0	01/20/2021	90% CONSTRUCTION DRAWING

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112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

STRUCTURE DETAILS

SHEET NUMBER:

S-2

APPLICANT:



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3RD FLOOR
TUSTIN, CA 92780

ENGINEER:



an SFC Communications, Inc. Company

65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
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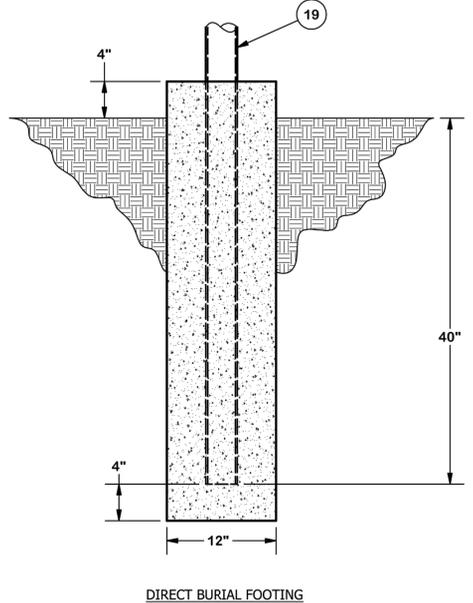
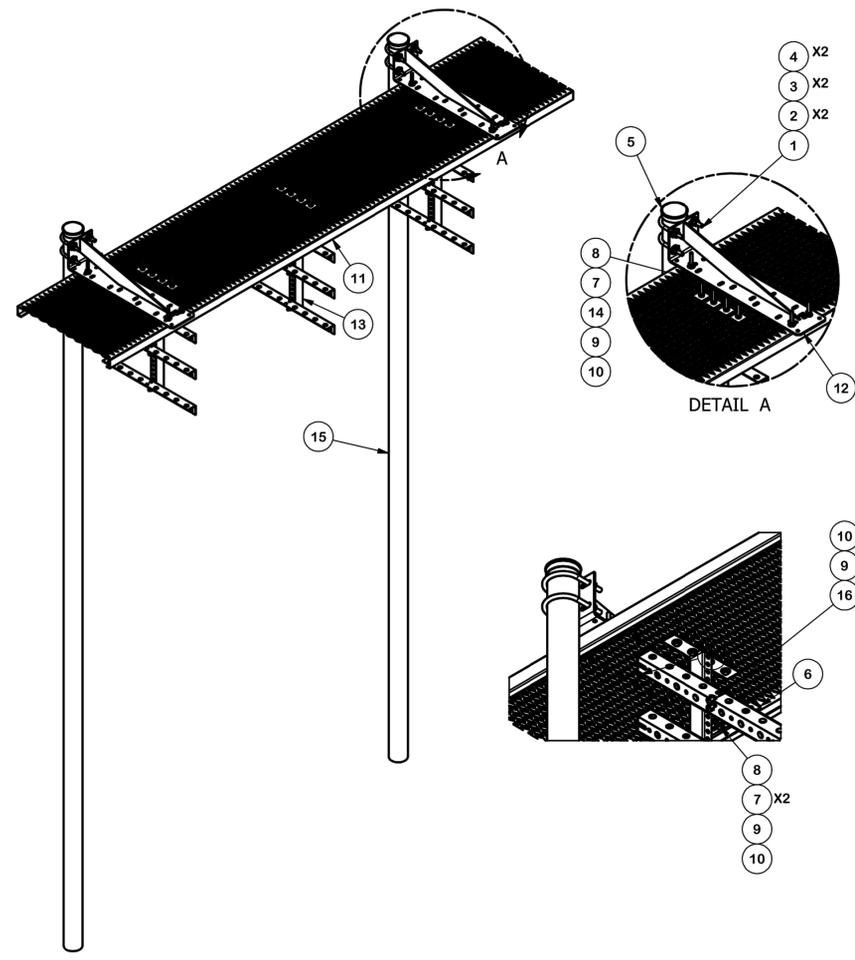
SHEET TITLE:

STRUCTURE DETAILS

SHEET NUMBER:

S-3

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.73	2.93
2	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
3	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
4	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
5	2	PC312	3-1/2" FENCE POST CAP		0.59	1.17
6	4	SPLICE	SPLICE FOR GRIP STRUT	7 3/8 in	0.53	2.10
7	28	G38FW	3/8" HDG USS FLATWASHER		0.01	0.33
8	20	G3803	3/8" x 3" HDG HEX BOLT GR5		0.12	2.42
9	38	G38LW	3/8" HDG LOCKWASHER		0.01	0.25
10	38	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	1.29
11	1	GRS24	24" X 10' GRIP SPAN BRIDGE CHANNEL		67.98	67.98
12	2	HHD24	24" UNIVERSAL CANTILEVER		14.10	28.20
13	3	TAB	TRAPEZE CENTER SUPPORT BAR		5.05	15.14
14	12	SQW38	3/8" SQUARE WASHER (GALV.)	2 in	0.27	3.28
15	2	P3160	3-1/2" X 160" SCH 40 GALVANIZED PIPE	160 in	101.25	202.50
16	18	G38114	3/8" x 1-1/4" HDG HEX BOLT GR5		0.06	1.13
17	9	AB24	24" ANGLE BRACKET		2.91	26.19
					TOTAL WT. #	352.61



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION		24" GRIP-SPAN ICE BRIDGE KIT WITH TRIPLE-TEE TRAPEZE 18' DIRECT BURIAL	
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
semb	CEK 9/7/2011		IB24D-T3
CLASS	SUB	CHECKED BY	DWG. NO.
	CUSTOMER	KAC 6/13/2012	IB24D-T3

SITE PRO 1

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering Support Team:
 1-888-753-7446

A valmont COMPANY

PAGE 1 OF 1

WB-BS

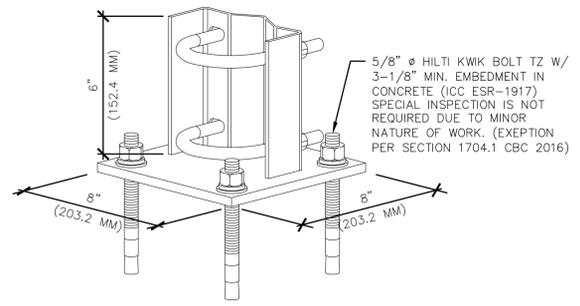
BASE SHOE FOR 3-1/2" OD PIPE, HARDWARE INCLUDED

DIMENSIONS

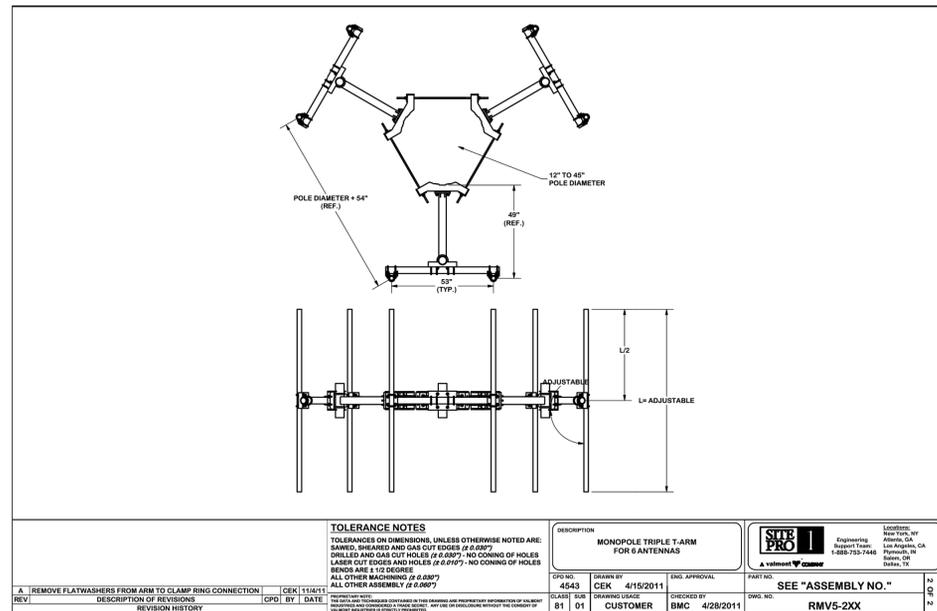
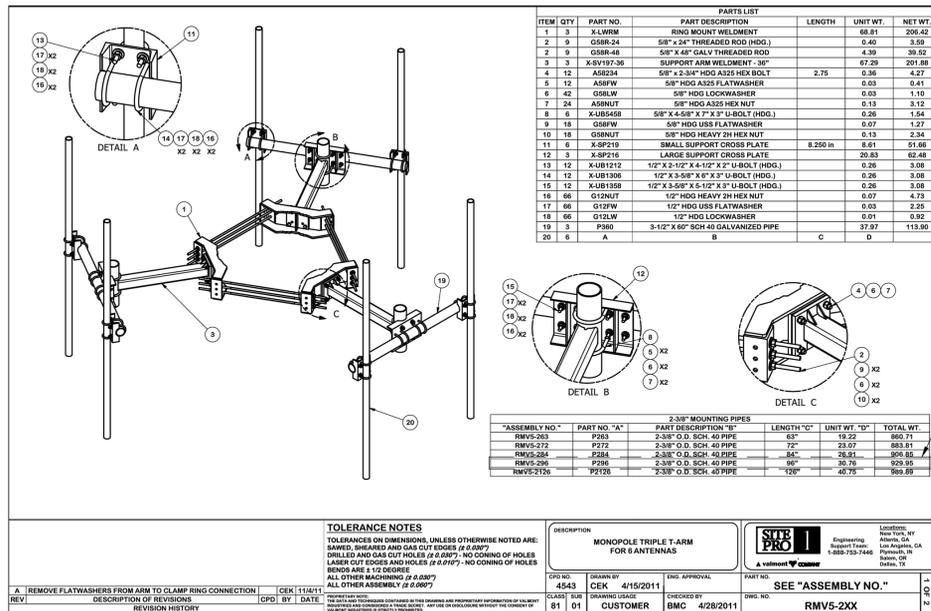
WIDTH	203.2MM	8.0 IN
HEIGHT	152.4MM	6.0 IN
LENGTH	203.2MM	8.0 IN
WEIGHT	8.7KG	19.2 LB

GENERAL SPECIFICATIONS

PRODUCT TYPE	BASE SHOES
APPLICATION	BASE SHOE
INCLUDES	HARDWARE MOUNT
MATERIAL TYPE	HOT DIP GALVANIZED STEEL
MOUNTING	PIPE, 88.9 MM (3-1/2") OD
PACKAGE QUANTITY	1



EUKON AT&T TEMP V2.0



SECTOR MOUNTING

3

NOT USED

2 NOT USED

1

APPLICANT:

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3RD FLOOR
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65 POST, SUITE 1000
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TEL: (949) 553-8566
www.eukongroup.com

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LICENSEE:

NOT FOR CONSTRUCTION

PROJECT INFORMATION:

CSL05779

112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

S-4

EUKON AT&T TEMP V2.0

SDC20 | 2.5L | 20 kW - AC
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

Standby Power Rating
20 kW AC, 60 Hz



Image used for illustration purposes only



Codes and Standards

Generac products are designed to the following standards:

- UL2200, UL508, UL142, UL489
- 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 50 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.

SPEC SHEET

1 of 5

SDC20 | 2.5L | 20 kW - AC
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

OPERATING DATA

POWER RATINGS

Single-Phase 120/240 VAC @ 1.0pf Circuit Breaker Size	20 kW 100A	Amps: 83
--	---------------	----------

FUEL CONSUMPTION RATES*

Percent Load	Diesel - gph (lph)	
	Standby	100%
25%	0.74 (2.80)	
50%	0.99 (3.75)	
75%	1.41 (5.30)	
100%		1.90 (7.19)

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

COOLING

	Standby
Coolant Flow per Minute	gpm (lpm)
Coolant System Capacity	gal (L)
Heat Rejection to Coolant	BTU/hr
Inlet Air	cfm (m ³ /min)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)
Maximum Radiator Backpressure	in H ₂ O

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power	cfm (m ³ /min)

ENGINE

	Standby	Standby
Rated Engine Speed	rpm	1800
Horzpower at Rated kW**	hp	33.5
Piston Speed	f/min	1220.47
BMEP	psi	96.5
Exhaust Flow (Rated Output)	cfm (m ³ /min)	193 (0.28)
Max. Backpressure (Post Silencer)	inHg (kPa)	1.38 (4.67)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	928 (497.7)

** Refer to "Emissions Data Sheet" for maximum bhp for EPA and SCAGM permitting purposes.

Deration - 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.

SPEC SHEET

4 of 5

SDC20 | 2.5L | 20 kW - AC
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaners with Service Indicator
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Exhaust Silencer with Drain
- Factory Filled Oil & Coolant

Fuel System

- Primary Fuel Filter

Cooling System

- 120V AC Coolant Heater
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 20/20 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Electrical System

- Battery Charging Alternator
- AGM Spill Proof Battery
- Battery Cables
- Sealed/Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- Output Circuit Breaker

ALTERNATOR SYSTEM

- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Amortisseur Winding
- Smooth Excitation
- Sealed Bearings
- Rotor Dynamically Spin Balanced
- Full Load Capacity Alternator
- Protective Thermal Shutdown

GENERATOR SET

- Single Side Service
- Internal Genset Vibration Isolators
- Separation of Circuits- High/Low Voltage
- Silencer Heat Shield
- High Heat Wrapped Exhaust Piping
- Silencer Enclosed Within Generator
- 5 Year Extended Warranty
- Extended Factory Testing
- 12 Gallon System Spill Containment
- 2.5 Gallon Fuel Fill Spill Containment

ENCLOSURE

- Serviceable Items Accessible Through Lift-Off Door
- High-Performance Sound-Absorbing Material
- Gasketed Door
- Stamped Air-Intake Louvers
- Single Door Latch Lockable with Key & Padlock
- Rhino Coat™ - Textured Polyester Powder Coat
- 150 MPH Wind Rating
- 36" Snow Rating

FUEL TANK

- UL 142 Compliant
- Double Wall Construction
- Factory Pressure Tested (5 psi)
- Rupture Basin Alarm
- Fuel Level Gauge and Sender
- Check Valve in Supply Line
- Rhino Coat™ - Textured Polyester Powder Coat
- Stainless Steel Hardware
- Integrated Fork Pockets

CONTROL SYSTEM

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485 Communications
- All-Phase Sensing Voltage Regulator
- Full System Status
- 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

Alarms

- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground Connections
- 15 Channel Data Logging
- 0.2 msec High Speed Data Logging
- Alarm Information Automatically Comes Up On the Display

Alarms

- Generator Run- Dry Contact
- Major Alarm- Dry Contact
- Minor Alarm- Dry Contact
- Low Fuel Alarm- Dry Contact
- Rupture Basin Alarm- Dry Contact
- 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)

MODEL OPTIONS

- 21 Light Annunciator- Shipped Loose Kit and Field Installed
- External E-Stop Shipped Loose Kit and Field Installed

ENCLOSURE

- Aluminum Enclosure
- Extreme Cold Weather Kit - Shipped Loose Kit and Field Installed

TANKS

- External Fuel Vent- Shipped Loose Kit and Field Installed

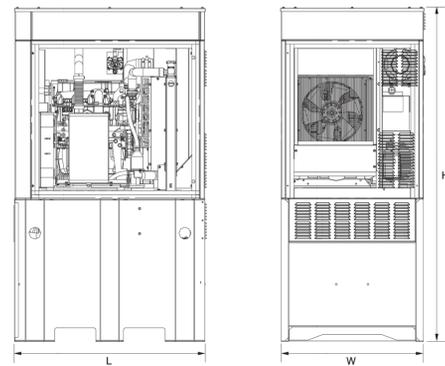
SDC20 | 2.5L | 20 kW - AC
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

DIMENSIONS AND WEIGHTS*



Level 2 Sound Attenuation Enclosure

Run Time Hours	48
Usable Capacity Gal (L)	92 (348.2)
L x W x H in (mm)	48 x 36 x 90 (1219.2 x 914.4 x 2286)
Weight (lbs (kg))	2400 (1089)
Sound Level	71 dBA

* All measurements are approximate and for estimation purposes only.



Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

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SPEC SHEET

2 of 5

SDC20 | 2.5L | 20 kW - AC
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Cooling System	
Make	Mitsubishi	Cooling System Type	Forced Circulation
EPA Emissions Compliance	Interim Tier 4	Water Pump Type	Centrifugal Pump
Cylinder #	4	Fan Type	Pusher
Type	In-Line	Fan Speed (rpm)	2100
Displacement - L (Cu In)	2.5 (158)	Fan Diameter - mm (in)	431.6 (17)
Bore - mm (in)	88 (3.5)	Coolant Heater Wattage	1000
Stroke - mm (in)	102 (4.1)	Coolant Heater Voltage	120
Compression Ratio	22:1	Fuel System	
Intake Air Method	Naturally Aspirated	Fuel Type	Ultra Low Sulfur Diesel #2

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	± 0.25%

Lubrication System

Oil Pump Type	Trochoid Gear Pump
Oil Filter Type	Filtering Paper, Full Flow
Crankcase Capacity - L (qts)	6.5 (6.9)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	12V-50A
Battery Size	650 CCA
Battery Group	3S
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model		Bearings	
Mecc Alte ECP 28-2U/4		Dual Sealed	
Poles	4	Coupling	Belt, Pulley
Field Type	Revolving	Load Capacity - Standby	100%
Insulation Class - Rotor	H	Prototype Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Digital
Total Harmonic Distortion	<5%	Number of Sensed Phases	All
Telephone Interference Factor (TIF)	<45	Regulation Accuracy (Steady State)	±0.5%
Standard Excitation	Brushless		

RATING DEFINITIONS

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

SPEC SHEET

5 of 5

APPLICANT:



1452 EDINGER AVENUE,
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:



65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

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LICENSEE:

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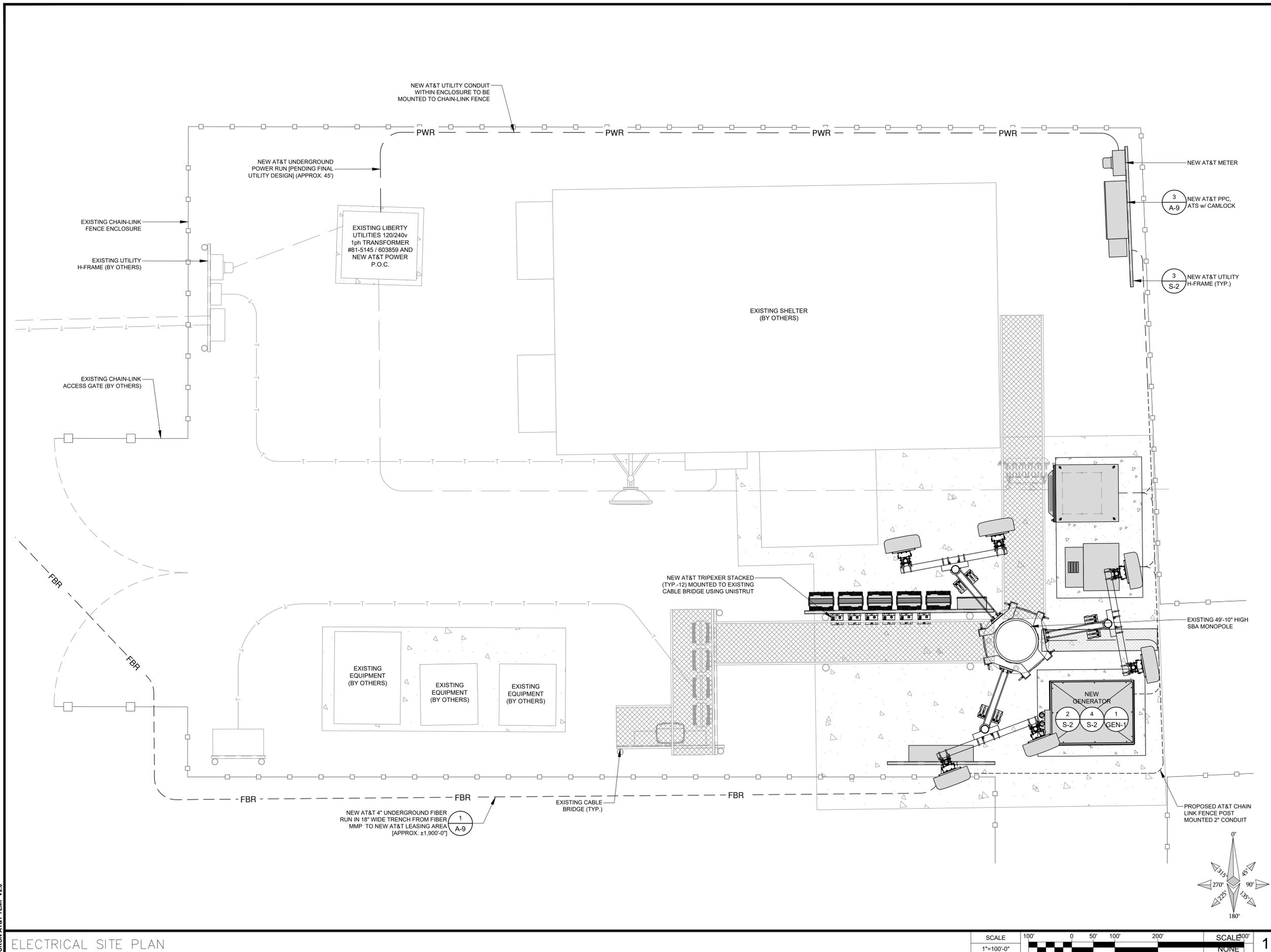
CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

GENERATOR SPECIFICATIONS

SHEET NUMBER:

GEN-1



APPLICANT:
The new at&t
 1452 EDINGER AVENUE,
 3RD FLOOR
 TUSTIN, CA 92780

ENGINEER:
Eukon
 an SFC Communications, Inc. Company
 65 POST, SUITE 1000
 IRVINE, CA 92618
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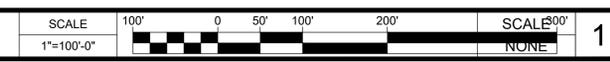
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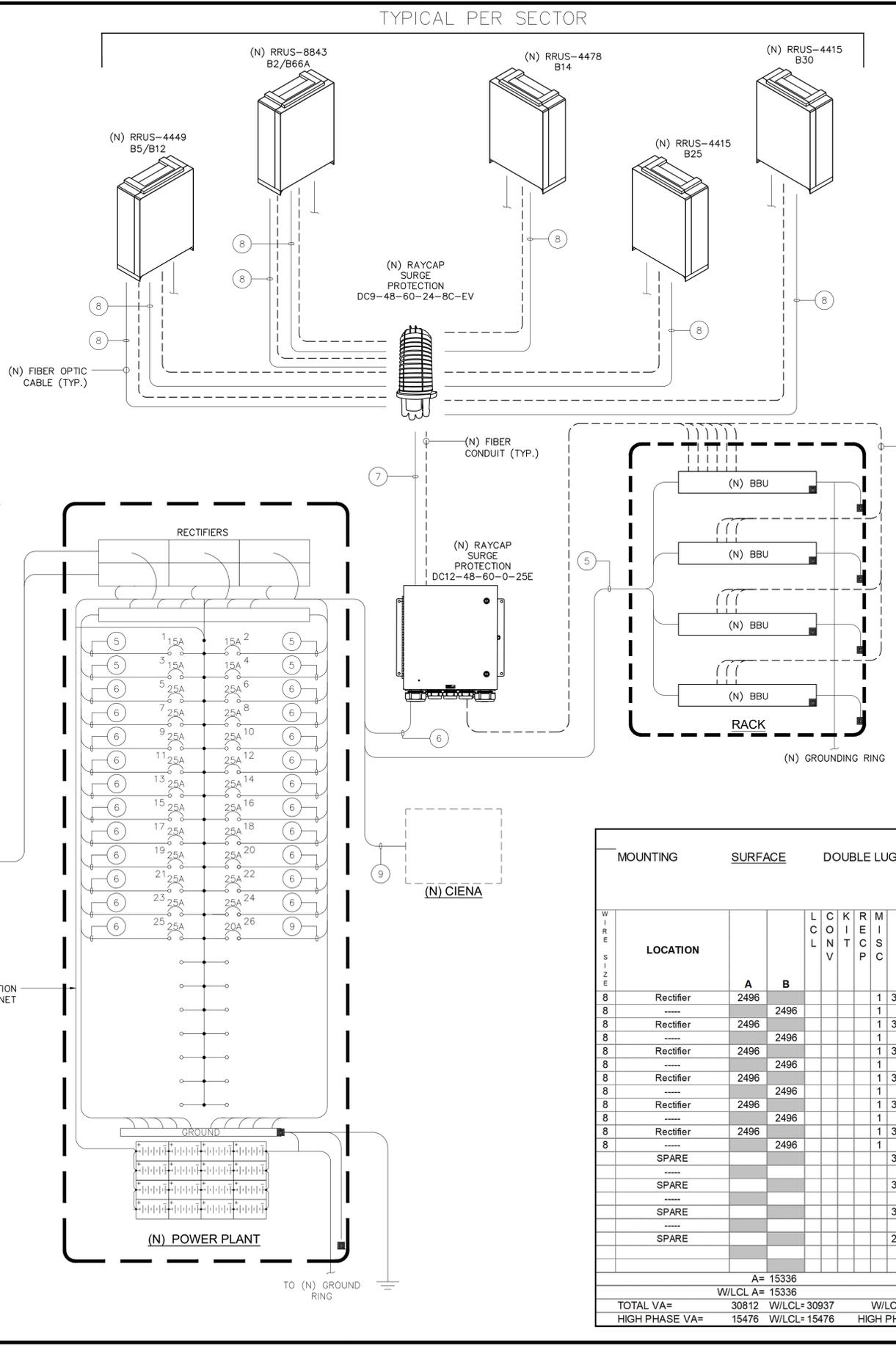
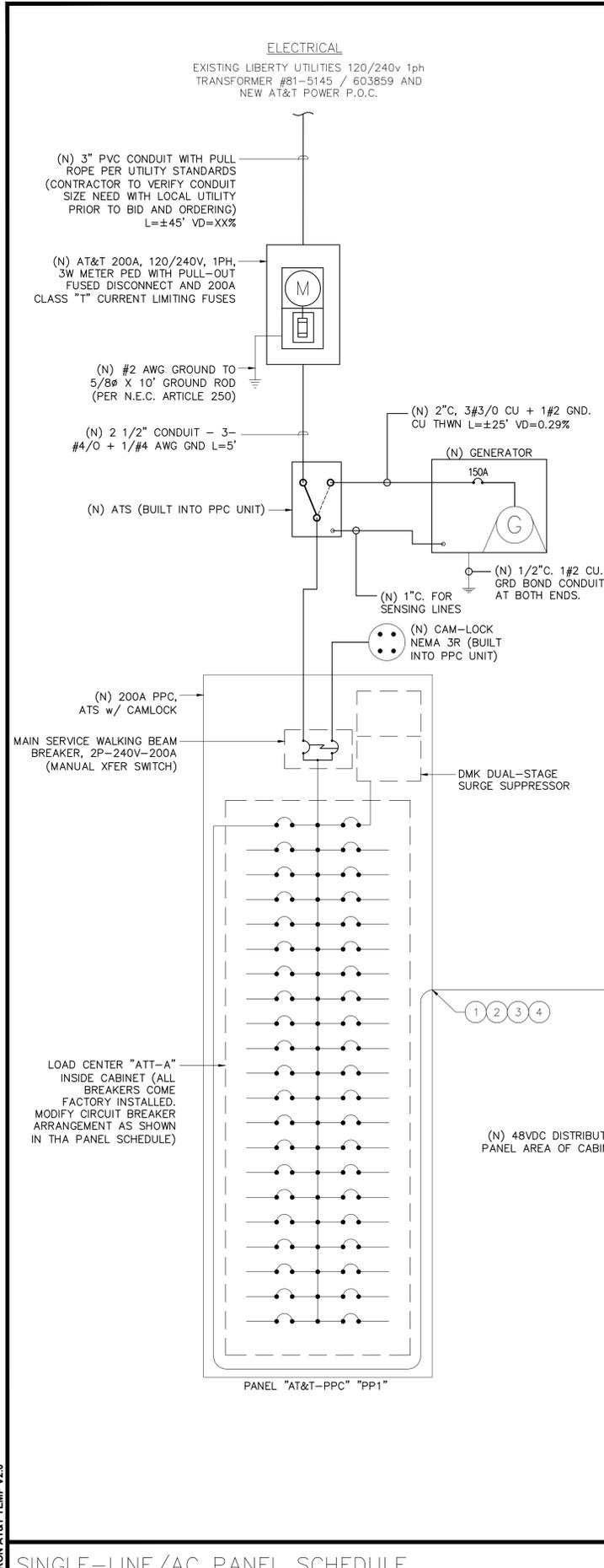
SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E-1

EUKON AT&T TEMP V2.0

ELECTRICAL SITE PLAN





CIRCUIT SCHEDULE

NO.	FROM	TO	WIRE SIZE	BREAKER
①	AC SERVICE ENTRANCE CABINET	ENCLOSURE GFCI RECEPTACLE	PER SCHEDULE	120/240V AC-20A
②	AC SERVICE ENTRANCE CABINET	48VDC RECTIFIERS 1, 2, 3	PER SCHEDULE	120/240V AC-50A
③	AC SERVICE ENTRANCE CABINET	48VDC RECTIFIERS 4, 5	PER SCHEDULE	30A
④	AC SERVICE ENTRANCE CABINET	BATTERY HEATER MATS	PER SCHEDULE	20A
⑤	48VDC, POWER PLANT	(N) BBU (TYP.-4)	(8) #10 RRH DC CABLE	-48V DC 15A
⑥	48VDC, POWER PLANT	(N) RAYCAP SURGE SUPPRESSOR DC12-48-60-0-25E (TYP.-3)	(4) #10 RRH DC CABLE	N/A
⑦	(N) RAYCAP SURGE SUPPRESSOR DC12-48-60-0-25E (TYP.-3)	(N) RAYCAP SURGE SUPPRESSOR DC9-48-60-24-8C-EV (TYP.-3)	(6) #10 RRH DC CABLE	N/A
⑧	(N) RAYCAP SURGE SUPPRESSOR DC9-48-60-24-8C-EV (TYP.-3)	(N) REMOTE RADIO UNIT (TYP.-15)	(42) #8 RRH DC CABLE	-48V DC 25A
⑨	48VDC, POWER PLANT	(N) CIENA	#10 RRH DC CABLE	-48V DC 25A

PANEL PPC

MOUNTING SURFACE DOUBLE LUG NO VOLTS 120|240 MAIN 200A/2P PHASE 1 BUS 200A WIRE 3 A.I.C. 42K SERIES W/ MAIN

WIRE SIZE	LOCATION	A		B		L	C	K	R	M	I	E	S	C	P	B	K	R	C	I	R	C	A/B	A	B	LOCATION	WIRE SIZE
		A	B	A	B																						
8	Rectifier	2496														1	30/2	1	A	2	30/2					Surge Suppressor	
8	Rectifier	2496	2496													1	30/2	5	A	6	20/2					SPARE	
8	Rectifier	2496	2496													1	30/2	9	A	10	20/1			1	360	GFCI RECEPTACLES	12
8	Rectifier	2496	2496													1	30/2	11	B	12	20/1			1	500	EXTERIOR LTG	12
8	Rectifier	2496	2496													1	30/2	13	A	14	20/1					SPARE	
8	Rectifier	2496	2496													1	30/2	15	B	16						SPACE	
8	Rectifier	2496	2496													1	30/2	17	A	18						SPACE	
8	Rectifier	2496	2496													1	30/2	19	B	20						SPACE	
8	Rectifier	2496	2496													1	30/2	21	A	22						SPACE	
8	Rectifier	2496	2496													1	30/2	23	B	24						SPACE	
8	SPARE															30/2	25	A	26							SPACE	
8	SPARE															30/2	27	B	28							SPACE	
8	SPARE															30/2	29	A	30							SPACE	
8	SPARE															30/2	31	B	32							SPACE	
8	SPARE															30/2	33	A	34							SPACE	
8	SPARE															30/2	35	B	36							SPACE	
8	SPARE															20/1	37	A	38							SPACE	
8	SPARE															39	B	40								SPACE	
8	SPARE															41	A	42								SPACE	
		A= 15336												B= 15476													
		W/LCL A= 15336												W/LCL B= 15601													
TOTAL VA=		30812				W/LCL= 30937				W/LCL AMPS= 129				TOTAL LCL= 500				X.25 = 125									
HIGH PHASE VA=		15476				W/LCL= 15476				HIGH PH AMPS= 129				HIGH PHASE LCL= 0				X.25 = 0									

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CSL05779

112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:

SINGLE-LINE DIAGRAM/AC PANEL SCHEDULE

SHEET NUMBER:

E-2

EUKON AT&T TEMP V2.0

GENERAL REQUIREMENTS

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- B. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- C. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- D. THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- E. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.
- F. COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- G. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- H. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION EXTERIOR OR CORRECTION BEFORE CONSTRUCTION.
- I. "PROVIDE": INDICATES THAT ALL ITEMS ARE TO BE FURNISHED.
- J. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.

EQUIPMENT LOCATION

- A. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- B. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- C. LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
- D. COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES. WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE NEW CHANGES BEFORE PROCEEDING.

SHOP DRAWINGS

- A. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL WITHIN 35 DAYS OF AWARD OF CONTRACT. SHOP DRAWINGS SHALL BE SUBMITTED IN A COMPLETE BOUND MANUAL INCLUDING LIGHT FIXTURES, SERVICE METERING, TRANSFER SWITCH, PANELBOARD, AND DISCONNECT SWITCHES. THE CONTRACTOR SHALL VERIFY DIMENSIONS OF EQUIPMENT TO INSURE THAT THEY FIT IN THE DESIGNATED AREA AND COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES FOR REQUIRED WORKING CLEARANCES ABOUT ELECTRICAL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL. DEPARTURE FROM THE ABOVE WILL RESULT IN RE-SUBMITTAL AND DELAYS.

SUBSTITUTIONS

- A. NO SUBSTITUTIONS ARE ALLOWED.

TESTS

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

PERMITS

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

GROUNDING

- A. THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- B. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.

- C. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- D. REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- E. ALL GROUNDING CONDUCTORS SHALL BE SOLIDINNNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- F. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED, THHN (GREEN) INSULATION.
- G. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- H. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- I. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

UTILITY SERVICE

- A. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- B. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

PRODUCTS

- A. ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- B. CONDUIT
 - 1. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP ROCESS NO. 3.
 - 2. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - 3. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - 4. CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
 - 5. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
 - 6. ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
 - 7. CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4 X 4 REDWOOD SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.
- C. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED, TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.

- D. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.

- E. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.
- F. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.

- G. PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY.

- H. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

- I. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

INSTALLATION

- A. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINARIES FROM UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

- CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ENGINEER BEFORE CORING.
- C. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- D. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- E. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE C.B.C.

PROJECT CLOSEOUT

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

GROUNDING NOTES

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS, ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
 - 8.1. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
 - 8.2. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING @ PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDDED AND HAVE A BUSHING. NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING @ BUSS BAR. NO "DOUBLING-UP" OF LUGS.
17. POWER AND TELCO CABS. SHALL BE GROUNDDED (BONDED) TOGETHER. 18. NO "L" AND "B" ALLOWED ON GROUNDING.
18. PROVIDE STAINLESS STEEL CLAM AND BRASS TAGS ON COAX @ ANTENNAS AND DOGHOUSE.

APPLICANT:



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COLEVILLE, CA 96107

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ELECTRICAL NOTES

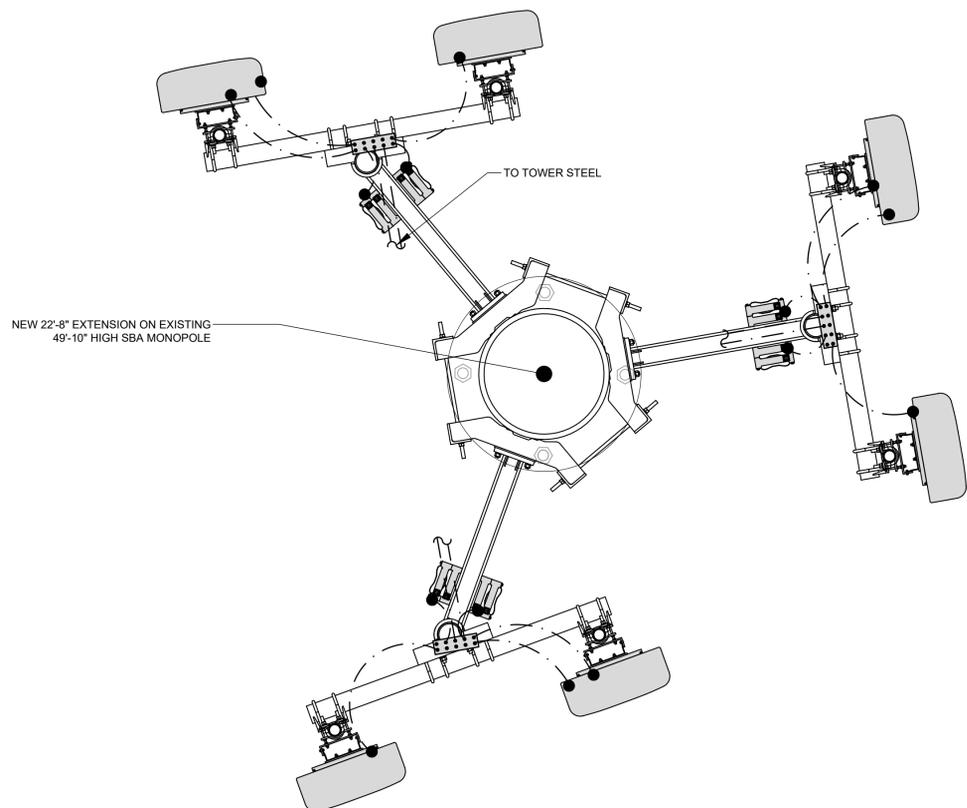
SHEET NUMBER:

E-3

- EXOTHERMIC ■
- COMPRESSION TYPE CONNECTIONS ●
- CHEMICAL ELECTROLYTIC GROUNDING SYSTEM ⊗
- GROUND ROD WITH INSPECTION SLEEVE ⏏
- TEST GROUND ROD WITH INSPECTION SLEEVE ⏏
- EXOTHERMIC WITH INSPECTION SLEEVE ■
- GROUNDING CONDUCTOR ---
- GROUNDING BAR ●●●●

THIS PLAN IS A SCHEMATIC ONLY AND DOES NOT SHOW ALL THE GROUNDING PROVIDED BY THE SHELTER MANUFACTURER. CONTRACTOR SHALL NOTIFY AT&T IF ANY GROUNDING TO BE PROVIDED IS INCOMPLETE OR MISSING.

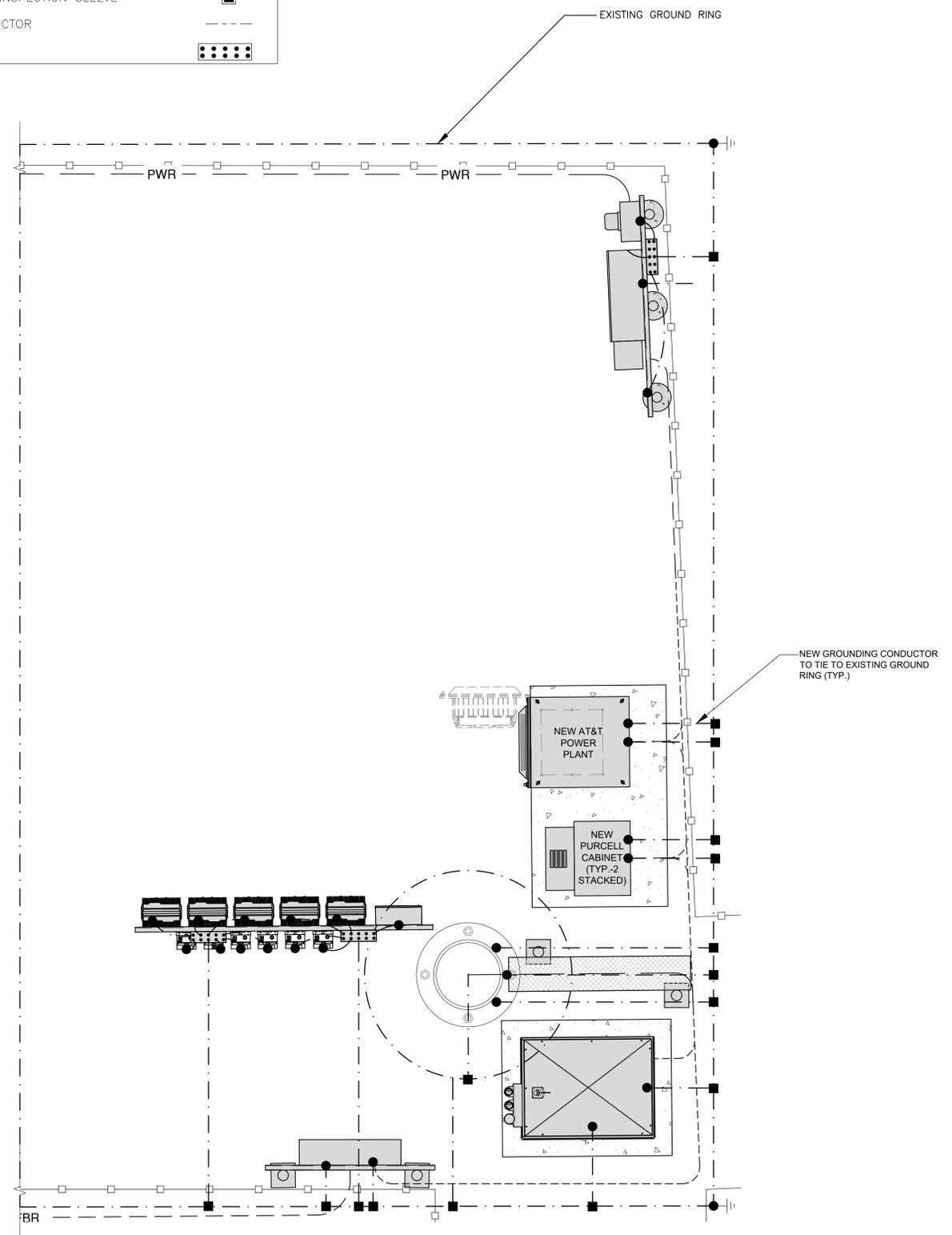
NOTE:
CONTRACTOR TO IMPLEMENT ALL GROUNDING REQUIREMENTS AS SPECIFIED BY CARRIER CONSTRUCTION AND INSTALLATION GUIDELINES.



- EXOTHERMIC ■
- COMPRESSION TYPE CONNECTIONS ●
- CHEMICAL ELECTROLYTIC GROUNDING SYSTEM ⊗
- GROUND ROD WITH INSPECTION SLEEVE ⏏
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APPLICANT:



1452 EDINGER AVENUE,
3RD FLOOR
TUSTIN, CA 92780

ENGINEER:



an SFC Communications, Inc. Company
65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

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0	01/20/2021	90% CONSTRUCTION DRAWING

LICENSEE:

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PROJECT INFORMATION:

CSL05779
112775 HWY. 395
COLEVILLE, CA 96107

SHEET TITLE:
ANTENNA AND RRUS/EQUIPMENT GROUNDING PLAN

SHEET NUMBER:
E-4

EUKON AT&T TEMP V2.0

NEWTON INSTRUMENT COMPANY, INC. BUTNER, N.C.			
NO	REQUIRED	PART NUMBER	DESCRIPTION
①	1	1/4"x4"x30"	SOLID GROUND BAR
②	2	A-6056	WALL MOUNTING BRACKET
③	2	3061-4	INSULATORS
④	4	3012-1	5/8"-11x1" H.H.C.S.
⑤	4	3015-8	5/8" LOCKWASHER

EACH GROUNDING CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION

SECTION "P" - SURGE PROTECTORS

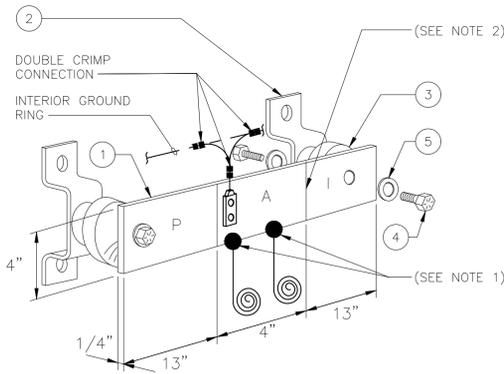
- (EC) CELL REFERENCE GROUND BAR (IF COLLOCATED)
- (EC) GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- (EC) TELCO GROUND BAR (#2 AWG)
- (EC) COMMERCIAL POWER COMMON NEUTRAL/GROUNDING BOND (3/0)
- (EC) FIBER GROUND BAR (#2 AWG)
- (EC) POWER ROOM REFERENCE GROUND BAR (#2 AWG)
- (AT&T) RECTIFIER FRAMES

SECTION "A" - SURGE ABSORBERS

- (EC) INTERIOR GROUND RING (#2 AWG)
- (EC) EXTERNAL EARTH GROUNDING FIELD (BURIED GROUND RING) (#2 AWG)
- (EC) METALLIC COLD WATER PIPE (IF AVAILABLE) (1/0 AWG)
- (EC) BUILDING STEEL (IF AVAILABLE) (1/0 AWG)

SECTION "I" - ISOLATED GROUNDING ZONE

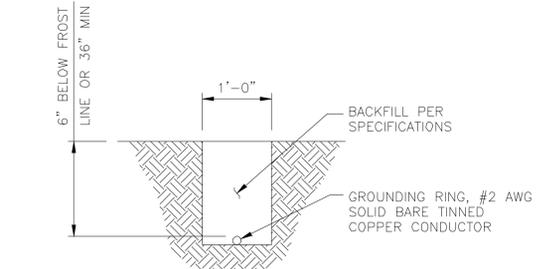
- (AT&T) ALL ISOLATED GROUNDING REFERENCE
- (AT&T) GROUND WINDOW BAR



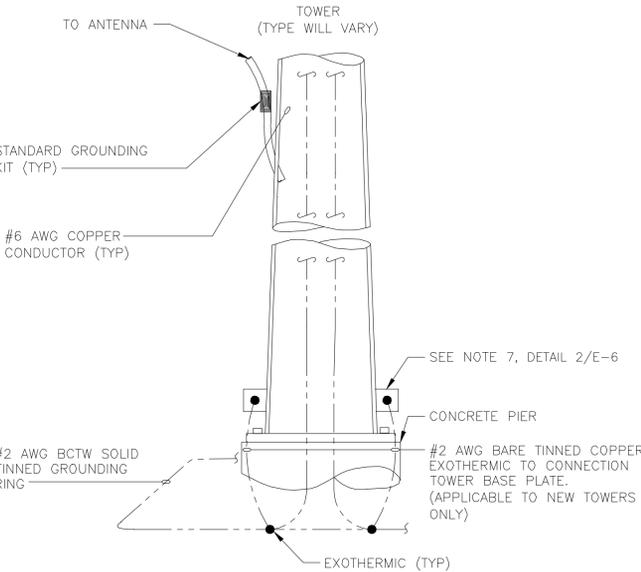
(MGB) REFERENCE GROUNDING BAR

6 NOT USED

4 GROUND RING TRENCH / NOTES

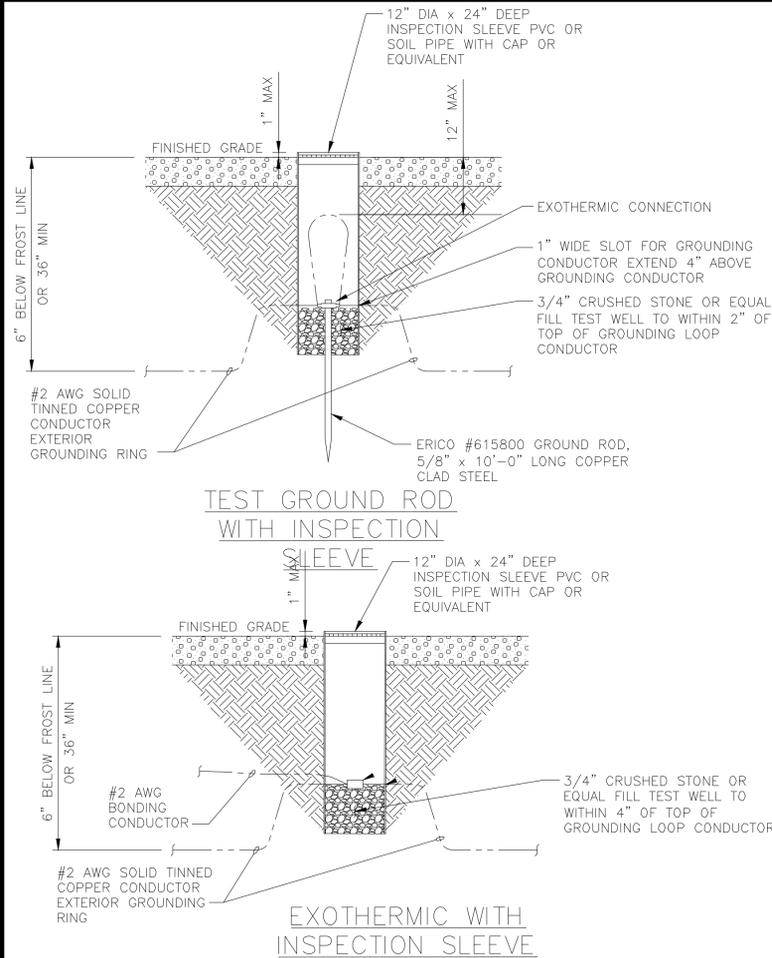


2



TOWER AND ANTENNA CABLE GROUNDING

5



GROUND ROD / INSPECTION SLEEVE

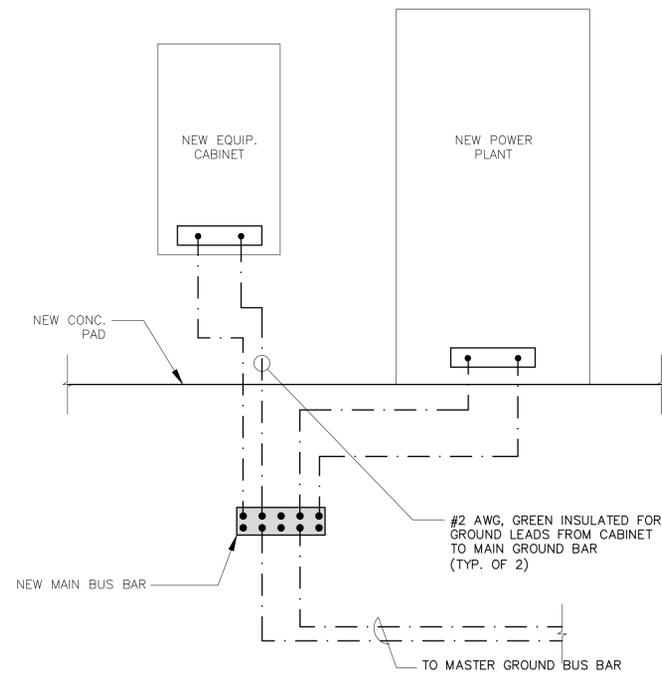
3

NOTES:

- THIS IS A DIAGRAMMATIC REPRESENTATION ONLY. SEE GROUNDING PLAN FOR SITE-SPECIFIC GROUNDING LAYOUT AND COMPONENTS.
- SEE GROUND NOTES FOR ADDITIONAL INFORMATION
- USE #2/0 AWG, BCW FOR GROUND LEADS FROM BUS BARS TO GROUND RING.
- USE #2 AWG, BCW FOR BURIED GROUND LOOP AND GROUND LEADS.
- THE NUMBER AND SIZE OF GROUND BARS USED MAY PER SITE CONDITIONS.

LEGEND:

- - EXOTHERMIC CONNECTION
- - MECHANICAL TYPE CONNECTION



RACK GROUNDING

1

NOTES:

- EXOTHERMIC WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL GROUND BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE." THE CONTRACTOR SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "I") WITH 1" HIGH LETTERS.
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUNDING CONDUCTOR DOWN TO GROUNDING BUS.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- SUPPLIED AND INSTALLED BY CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

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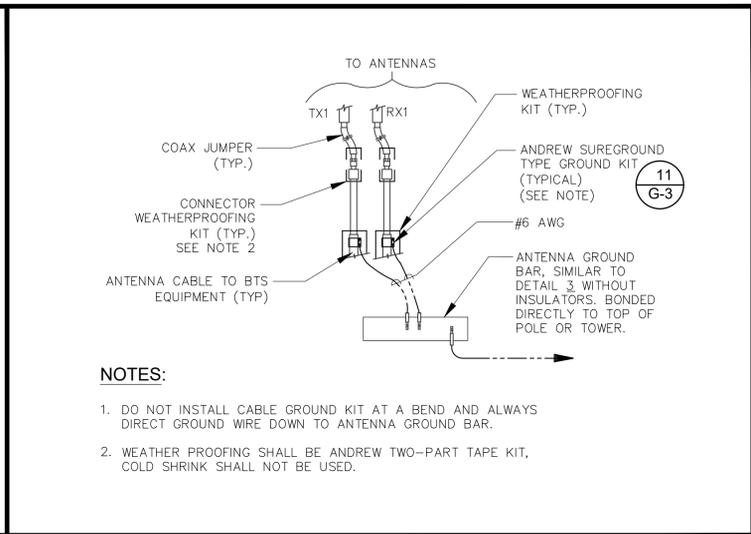
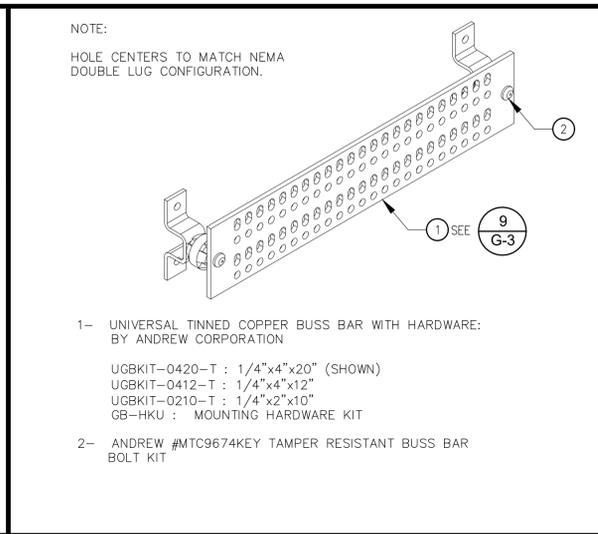
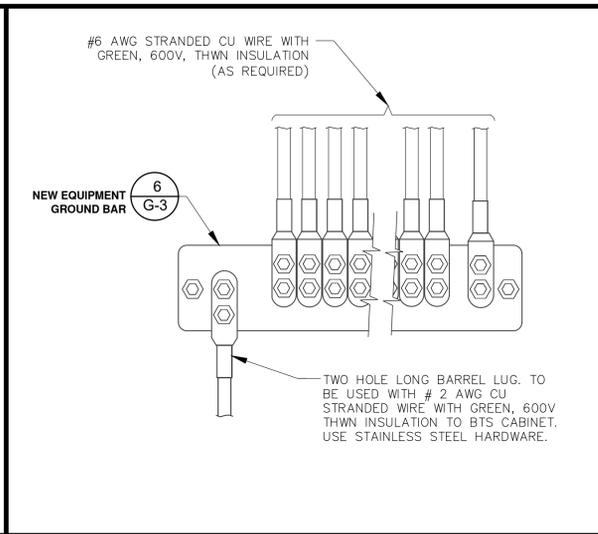
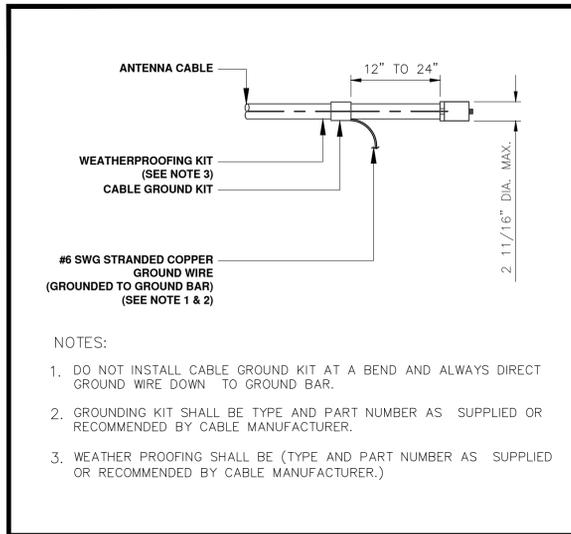
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SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

E-5

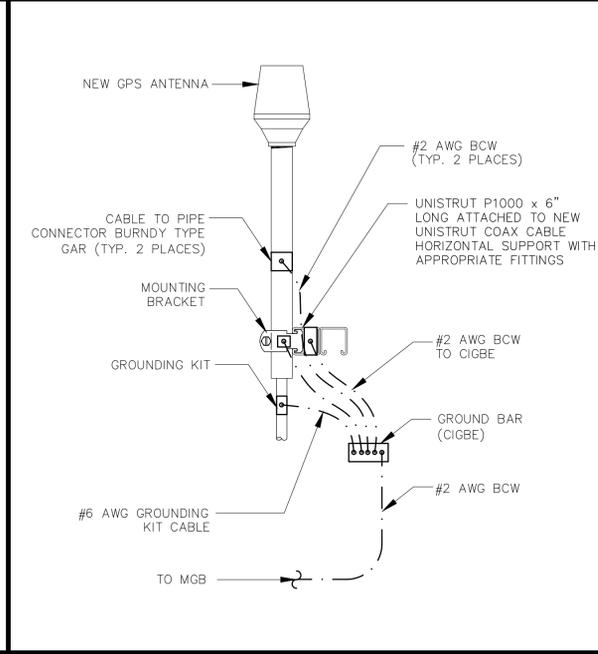
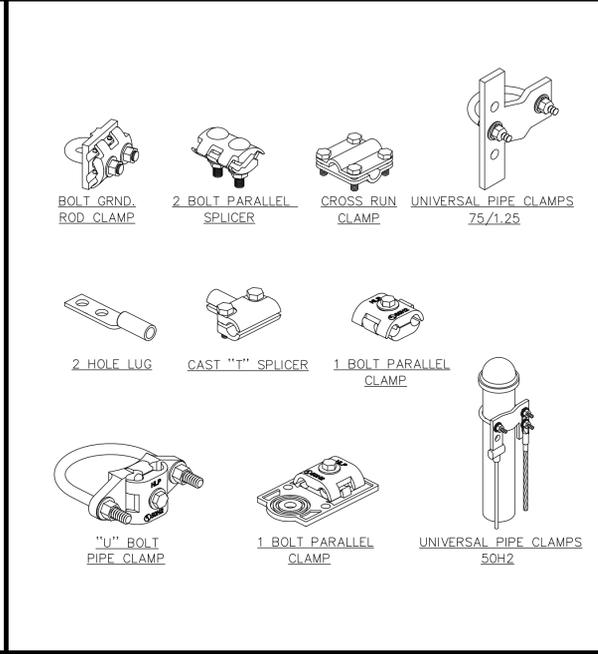
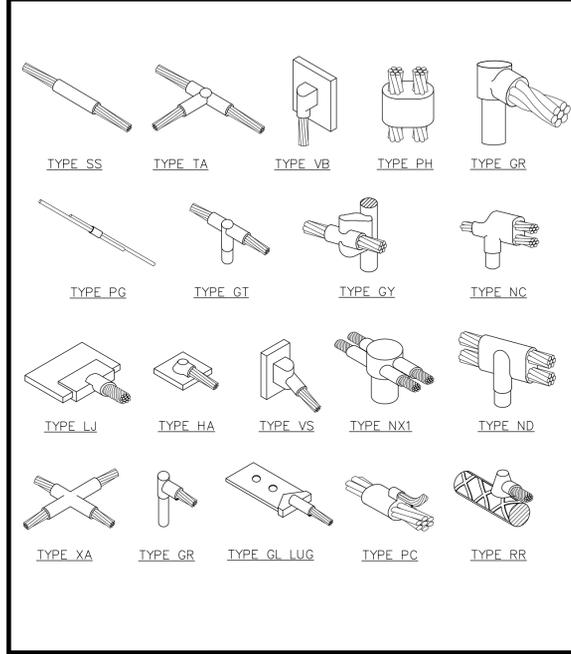


CONN. OF CABLE GND KIT TO ANT. 12

INSTALLATION OF GND WIRE TO GND BAR 9

GROUND BAR DETAIL 6

CONN. OF GRND WIRE TO GRND BAR, TOWER 3



EXOTHERMIC WELD CONNECTION 11

MECHANICAL CONNECTION 8

GPS ANTENNA GROUNDING 5

GROUNDING NOTES 2

NOT USED 10

NOT USED 7

NOT USED 4

NOT USED 1

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TEL: (949) 553-8566
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COLEVILLE, CA 96107

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

E-6



PYL12VI85FT
12V 185Ah-8Hr

Proven in the real world, the Pyl Series of telecom batteries provides security and long life in extreme climates where other VRLA batteries just don't survive. The Pyl technology utilizes proprietary lead alloys and active material additives. The Pyl Series is the most cost effective battery solution over the total life cycle and for initial installation in your network.



- Primary lead for Long Life
- UL94 V-0 flame retardant case
- High temperature, long life design
- AGM and spill-proof construction
- Harnesses/connecting bars available
- No maintenance required
- 10+ years design life
- GR-4228 compliant
- UL recognized
- ABS plastic case for durability

SPECIFICATIONS

* Maximum Charge Current is 25% of the 8 Hr. Rate

Nominal Voltage (V)	Rated Capacity Rate in Ah * 8 Hr	Ambient Temperature Change / Discharge	Storage	Outer Dimensions								Weight		Terminal
				L mm	L in.	W mm	W in.	H mm	H in.	TH mm	TH in.	kg	lbs.	
12	185 Ah	-15 to 60°C (-5 to 122°F)	-15 to 45°C (-5 to 113°F)	556	21.9	125	4.9	317	12.5	317	12.5	60.7	133.6	Front-M8 Bolt

Amperes to Final voltage: 1.75V per cell @ 25°C (77°F)

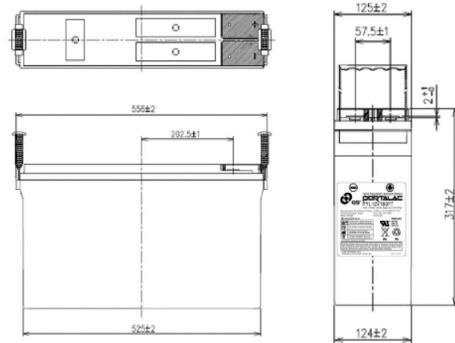
DISCHARGE TIME (Hr)										
2	3	4	5	6	7	8	9	10	12	20
71.2	52.0	41.3	34.4	30.0	26.0	23.1	21.0	19.3	17.7	10.2

Watts to Final voltage: 1.75V per cell @ 25°C (77°F)

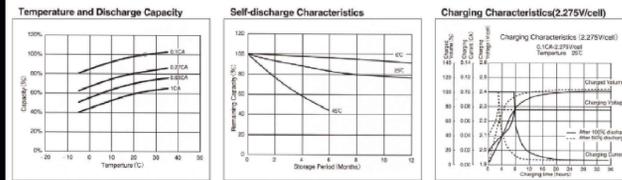
DISCHARGE TIME (Hr)										
2	3	4	5	6	7	8	9	10	12	20
829	609	487	407	361	315	275	250	232	215	123

PYL12VI85FT 12V 185Ah-8Hr

Rev. 10-23-2012



- Float Charge Voltage: 13.65V +/- 0.15V
- Temperature Compensation: The recommended compensation factor is -3mV/°C/cell. The standard center point for temperature compensation is 25°C.
- Internal Resistance: Approximately 3.5 mΩ measured with 1kHz AC bridge
- Terminal Torque: 90 in.lbs. (13mm, top); 43.5 in.lbs. (10mm, front)



GS Battery (U.S.A.), Inc.
1150 Northmeadow Parkway, Suite 110
Roswell, GA 30076
800-472-2879

GS
www.gsbattery.com

UL
International Certification
(1) ISO 9001, TS16949
(2) UL approval, Code:MH12970

FIRE DEPARTMENT NOTES

GENERAL

- 1.0 ADDRESS NUMBERS:
A. APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION SHALL BE PLACED IN A POSITION THAT PLAINLY LEGIBLE AND VISIBLE FROM THE STREET, ROAD, ALLEY, AND WALKWAYS GIVING ACCESS TO AND WITHIN THE PROPERTY.
- 2.0 FIRE EXTINGUISHERS:
A. PROVIDE A FIRE EXTINGUISHER (MINIMUM 2A-10BC) WITHIN A RECESSED OR SEMI-RECESSED CABINET WITHIN 75 FEET TRAVEL DISTANCE FROM ALL POINTS IN THE OCCUPANCY; THE EXTINGUISHER SHALL BE MOUNTED ON A HOOK WITHIN THE CABINET (ELEVATED OFF CABINET FLOOR); THE TOP OF THE EXTINGUISHER SHALL BE NO HIGHER THAN 48 INCHES (1219 mm) ABOVE THE FLOOR; EXTINGUISHER SHALL BE PLACED IN A EASILY ACCESSIBLE LOCATIONS WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE.
- 3.0 DOOR OPERATIONS:
A. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT KEY, SPECIAL KNOWLEDGE, OR EFFORT. THE UNLATCHING OF ANY EXIT DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION.
- 4.0 ADDITIONAL PERMIT:
A. PRIOR TO THE FINAL INSPECTION, OBTAIN A HAZARDOUS MATERIALS PERMIT FROM THE FIRE DEPARTMENT. CONTACT THE ENVIRONMENTAL MANAGEMENT CENTER AT (916) 455-8200
- 5.0 REQUIRED INSPECTIONS:
A. THE FIRE DEPARTMENT INSPECTION FOR THIS PROJECT INCLUDE THE FOLLOWING:
1. HAZARDOUS MATERIALS FINAL INSPECTION.
2. FIRE PREVENTION BUREAU FINAL INSPECTION - CONTRACTOR MUST REQUEST A SEPERATE INSPECTION. INSPECTION INCLUDES, BUT IS NOT LIMITED TO: FIRE EXTINGUISHERS; SIGNAGE; DOOR HARDWARE AND MEANS OF EGRESS; EMERGENCY EXIT LIGHTING; ETC.
- NOTE: TO SCHEDULE INSPECTIONS: CALL OFFICE OF STATE FIRE MARSHALL AT (916-445-8200) AT LEAST 48 HOURS IN ADVANCE.

NOTES

1. PER CFC 2019 SECTION 1206.2 "STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES EXCEEDING THE VALUES SHOWN IN TABLE 1206.2 SHALL COMPLY WITH SECTION 1206.2.1 THROUGH 1206.2.12.6, AS APPLICABLE". SINCE THE TOTAL CAPACITY OF THE LEAD-ACID-TYPE BATTERY SYSTEM IS LESS THAN 70kWh THIS MODIFICATION IS EXEMPT FROM CFC 2019 SECTION 1206. CAPACITY CALCULATION:
(16 BATTERIES x 185Ah x 12V) / 1000 = 35.52kWh
2. DEFINITIONS PER CFC 2019 SECTION 1202.1:
LEAD ACID BATTERY:
A STORAGE BATTERY THAT IS COMPRISED OF LEAD ELECTRODES IMMERSSED IN SULPHURIC ACID ELECTROLYTE.
CORROSIVE:
A CHEMICAL THAT CAUSES VISIBLE DESTRUCTION OF, OR IRREVERSIBLE ALTERATIONS IN, LIVING TISSUE BY CHEMICAL ACTION AT THE POINT OF CONTACT. A CHEMICAL SHALL BE CONSIDERED CORROSIVE IF, WHEN TESTED ON THE INTACT SKIN OF ALBINO RABBITS BY THE METHOD DESCRIBED IN DOTN 49 CFR 173.137, SUCH CHEMICAL DESTROYS OR CHANGES IRREVERSIBLY THE STRUCTURE OF THE TISSUE AT THE POINT OF CONTACT FOLLOWING AN EXPOSURE PERIOD OF 4 HOURS. THIS TERM DOES NOT REFER TO ACTION ON INANIMATE SURFACES.
HAZARDOUS MATERIALS:
THOSE CHEMICALS OR SUBSTANCES WHICH ARE PHYSICAL HAZARDS OR HEALTH HAZARDS AS DEFINED AND CLASSIFIED IN THIS CHAPTER, WHETHER THE MATERIALS ARE IN USABLE OR WASTE CONDITION.
HEALTH HAZARD:
A CLASSIFICATION OF A CHEMICAL FOR WHICH THERE IS STATISTICALLY SIGNIFICANT EVIDENCE THAT ACUTE OR CHRONIC HEALTH EFFECTS ARE CAPABLE OF OCCURRING IN EXPOSED PERSONS. THE TERM "HEALTH HAZARD" INCLUDES CHEMICALS THAT ARE TOXIC, HIGHLY TOXIC AND CORROSIVE.
PHYSICAL HAZARD:
A CHEMICAL FOR WHICH THERE IS EVIDENCE THAT IT IS A COMBUSTIBLE LIQUID, CRYOGENIC FLUID, EXPLOSIVE, FLAMMABLE (SOLID, LIQUID OR GAS), ORGANIC PEROXIDE (SOLID OR LIQUID), OXIDIZER (SOLID OR LIQUID), OXIDIZING GAS, PYROPHORIC (SOLID, LIQUID OR GAS), UNSTABLE (REACTIVE) MATERIAL (SOLID, LIQUID OR GAS) OR WATER-REACTIVE MATERIAL (SOLID OR LIQUID).

BATTERY TYPE	ELECTROLYTE WEIGHT (lbs.)	ELECTROLYTE VOLUME (gal.)	ACID WEIGHT (lbs.)	ACID VOLUME (gal.)	LEAD (lbs.)	LEAD OXIDE (lbs.)	TOTAL # OF BATTERIES	ELECTROLYTE TOTAL WEIGHT (lbs.)	ELECTROLYTE TOTAL VOLUME (gal.)	TOTAL ACID (gal.)
* MARATHON "M12V180FT"	27.27	2.47	11.44	0.74	92.6	20	8	218.16	19.76	5.92

APPLICANT:

The new **at&t**

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FIRE DEPARTMENT NOTES AND BATTERY INFORMATION

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FD-1