

**PROJECT TEAM**

**CLIENT REPRESENTATIVE**

COMPANY: SMARTLINK GROUP  
 ADDRESS: 8767 E. VIA DE VENTURA, SUITE 200  
 CITY, STATE, ZIP: SCOTTSDALE, AZ 85258  
 CONTACT: JOHN TISHUCK  
 PHONE: (480) 262-6316  
 E-MAIL: JOHN.TISHUCK@SMARTLINKGROUP.COM

**PROJECT OWNER**

COMPANY: AT&T  
 ADDRESS: 1355 WEST UNIVERSITY DRIVE  
 CITY, STATE, ZIP: MESA, AZ 85201-5419

**PROFESSIONAL OF RECORD**

COMPANY: SMARTLINK GROUP  
 ADDRESS: 8767 E. VIA DE VENTURA, SUITE 200  
 CITY, STATE, ZIP: SCOTTSDALE, AZ 85258  
 CONTACT: RACHAEL CARSON  
 PHONE: (602) 793-8101  
 E-MAIL: RACHAEL.CARSON@SMARTLINKGROUP.COM

**PROPERTY OWNER**

COMPANY: 15695 N. 83RD WAY LLC  
 ADDRESS: 15475 N. 84TH ST.  
 CITY, STATE, ZIP: SCOTTSDALE, AZ 85260



**PROJECT INFORMATION:**

**W384 AZPHU3384 AZL03384**  
**CMC GOLF - MONOPALM-CANB**  
**E-UTRA BAND 17 PTN: 3901A0YVPV**  
**C-BAND 4GHZ BAND N77 PTN: 3901A0YX7X**  
**5G PTN: 3901A105YC**  
**5G PTN: 3901A10L3K**  
**FA: 10140988 USID: 118806**

SHEET	DESCRIPTION
T-1	TITLE SHEET
A-1	SITE PLAN
A-2	EQUIPMENT AND ANTENNA LAYOUTS
A-3	ELEVATIONS - EXISTING AND NEW
E-1	AC PANEL SCHEDULE
E-2	DC PANEL SCHEDULE
E-3	GROUNDING PLANS
CONTRACTOR TO REFERENCE PACKAGE "B" FOR SCHEMATICS, WIRING DIAGRAMS AND DETAILS.	

**GENERAL NOTES**


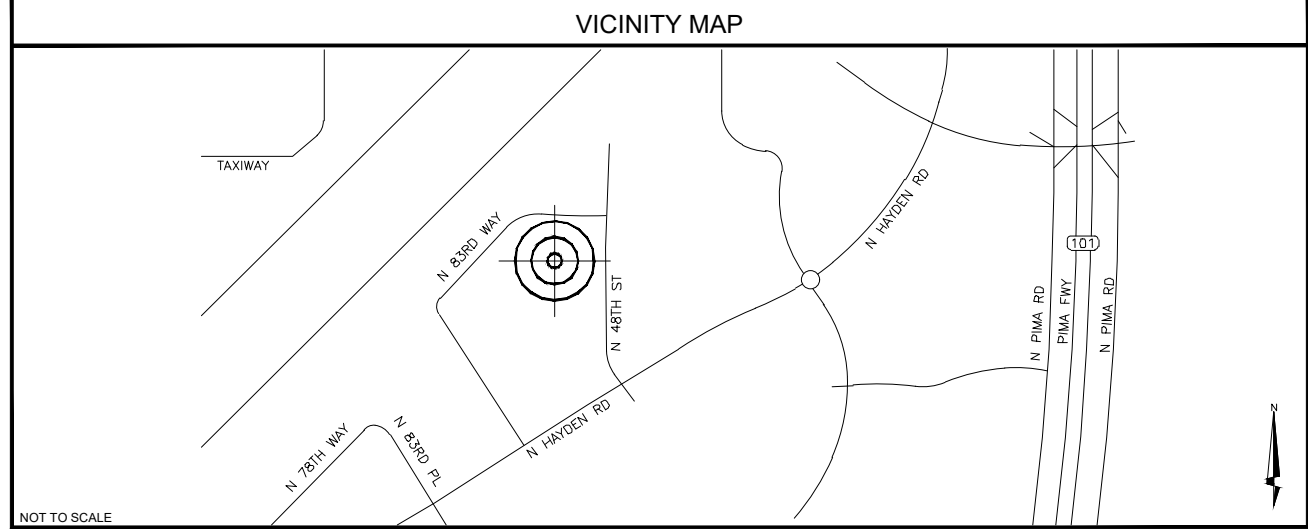
**DO NOT SCALE DRAWINGS**  
 CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

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 PROPOSED.

PDF DRAWING ISSUED AS 24X36 SHALL BE PRINTED 50% SCALE CENTERED ON PAGE FOR 11X17 PRINTS. PDF DRAWINGS ISSUED 11X17 SHALL BE PRINTED 100% CENTERED.

**SITE INFORMATION**

LATITUDE: 33° 37' 39.50004"N  
 LONGITUDE: -111° 54' 1.90008"W  
 LAT./LONG. TYPE: NAD 83  
 GROUND ELEVATION: 1497.2' AMSL  
 APN #: 215-48-068  
 AREA OF CONSTRUCTION: EXISTING  
 ZONING/JURISDICTION: CITY OF SCOTTSDALE  
 CURRENT ZONING: I-1  
 EXISTING USE: UNMANNED TELECOMMUNICATIONS FACILITY  
 COUNTY: MARICOPA COUNTY  
 HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

**DRIVING DIRECTIONS**

FROM AT&T OFFICE: 1355 WEST UNIVERSITY DRIVE, MESA, AZ 85201-5419:  
 HEAD WEST ON W UNIVERSITY DR TOWARDS N STANDAGE, TURN RIGHT ONTO S SMITH RD, TURN RIGHT ONTO E RIO SALADO PKWY, TURN LEFT TO MERGE ONTO AZ-101 LOOP N, MERGE ONTO AZ-101 LOOP N, TAKE EXIT 39 FOR RAINTREE DR, KEEP LEFT AND MERGE ONTO E RAINTREE DR, MERGE ONTO E RAINTREE DR, TURN RIGHT ONTO N NORTHSIGHT BLVD, AT THE TRAFFIC CIRCLE, TAKE THE 3RD EXIT ONTO N HAYDEN RD, TURN RIGHT ONTO N 84TH ST, TURN LEFT ONTO N 83RD WAY, SITE WILL BE ON THE LEFT.

**CODE COMPLIANCE**

BUILDING CODE: INTERNATIONAL BUILDING CODE 2018 (WITH CITY AMENDMENTS)  
 ELECTRICAL CODE: NATIONAL ELECTRICAL CODE 2017 (WITH CITY AMENDMENTS)  
 LIGHTNING PROTECTION CODE: NFPA 780 - 2000, LIGHTNING PROTECTION CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

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

**RFDS DATA**

DESIGN PACKAGE BASED ON RF DATA SHEET

RFDS NAME:	AZL03384
REVISION:	V1.00
DATE:	07/05/2021 2:20:58 PM
NUMBER OF SECTORS:	3
NUMBER OF ANTENNAS:	9
NUMBER OF RRH UNITS:	9
NUMBER OF RF CABLES:	0
NUMBER OF FIBER/DC SQUIDS:	2
NUMBER OF DC SQUIDS:	0
NUMBER OF OPTICAL TRUNK CABLES:	2
NUMBER OF DC TRUNK CABLES:	5
NUMBER OF RET LINES:	1

**APPROVALS**

AT&T (RF): \_\_\_\_\_ DATE: \_\_\_\_\_  
 AT&T (CONST.): \_\_\_\_\_ DATE: \_\_\_\_\_  
 AT&T (SAM): \_\_\_\_\_ DATE: \_\_\_\_\_  
 LANDLORD: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LANDLORD: \_\_\_\_\_ DATE: \_\_\_\_\_

**FIELD DATA SUMMARY**

YES	ANTENNA SWAP
18	NUMBER OF EXISTING 7/8" COAX CABLES
4	NUMBER OF EXISTING DC TRUNK CABLES
1	NUMBER OF EXISTING FIBER TRUNK CABLES
±110'-0"	DISTANCE OF FIBER/COAX RUN
T.B.D.	FIBER PROVIDER
T.B.D.	CIRCUIT ID

NOTE:  
 -CONTRACTOR TO FIELD VERIFY ALL QUANTITIES AND LENGTHS.  
 -DRAWINGS BASED ON PRIOR PERMITTED DRAWINGS SCOPE OF WORK.  
 -SITE WALK HAS NOT BEEN PERFORMED.

**PROJECT DESCRIPTION**

THIS PROJECT WILL BE COMPRISED OF:  
 CHANGES ON THE EXISTING AT&T ANTENNA ARRAY:  
 • POSITION (1) - REPLACE (1) EXISTING ANTENNA PER SECTOR WITH (2) NEW STACKED AT&T ANTENNAS WITH INTEGRATED RRH UNIT PER SECTOR, (3) SECTORS, (6) TOTAL  
 • POSITION (3) - REPLACE (1) EXISTING ANTENNA PER SECTOR, (3) SECTORS, (3) TOTAL  
 • POSITION (1) - REMOVE (2) EXISTING RRH UNITS PER SECTOR, (3) SECTORS, (6) TOTAL  
 • POSITION (3) - REPLACE (2) EXISTING AT&T RRH UNITS PER SECTOR, (3) SECTORS, (6) TOTAL, ON NEW BACK TO BACK MOUNTS  
 • POSITION (3) - REMOVE (1) EXISTING TMA UNIT PER SECTOR, (3) SECTORS, (3) TOTAL  
 • REMOVE (1) EXISTING DC6 SQUID  
 • POSITION (2) - RELOCATE (1) EXISTING RRH FROM GROUND TO TOWER AND WIRE TO POSITION (3), (3) PER SECTOR, (3) TOTAL  
 • INSTALL (1) NEW DC9 SQUID  
 • INSTALL (1) NEW 24 PAIR FIBER TRUNK CABLE  
 • INSTALL (1) NEW 6AWG DC TRUNK CABLE  
 • INSTALL (3) NEW BACK TO BACK MOUNTS ON STAND-OFF, (1) PER SECTOR, (3) TOTAL  
 • REMOVE (18) 7/8" COAX CABLES

CHANGES IN THE EXISTING AT&T EQUIPMENT ENCLOSURE AREA:  
 • REMOVE (1) EXISTING UMTS CABINET  
 • REMOVE (1) EXISTING LTE CABINET  
 • INSTALL (1) NEW FLX21 PURCELL CABINET  
 • RELOCATE (3) WCS RRH UNITS TO POLE


**AC/DC SCOPE:**  
**DC POWER PLAN REVIEW:**  
 • EXISTING VERTIV NETSURE 512 -48VDC POWER PLANT [NEQ.19918] OUTFITTED WITH (12) HE 2KW -48VDC RECTIFIERS [NEQ. 15930] & (4) HE 1.5KW -48VDC+24VDC CONVERTER MODULES [NEQ. 15929]. NO ADDITIONAL RECTIFIERS REQUIRED TO MEET N+1 REQUIREMENT.  
 • INSTALL THE FOLLOWING DC BREAKERS:  
 • (6) 50A [NEQ. 00710] AEO SERIES

**BATTERY CHECK:**  
 • BATTERY RESERVE CAPACITY: SITE HAS (32) EXISTING MARATHON M12V155FT BATTERIES CONFIGURED FOR -48V OPERATION AS (4) CELLS PER STRING. EIGHT BATTERY STRINGS WILL PROVIDE 5.9 HOURS OF BATTERY BACKUP.  
 • NO STANDBY GENERATOR, MINIMUM REQUIRED BATTERY BACKUP TIME IS 4.0 HOURS.

**AC PANEL REVIEW:**  
 • SEE PANEL SCHEDULES


**HVAC UNITS:**  
 • OUTDOOR SITE, HVAC FOR INDIVIDUAL EQUIPMENT CABINETS ONLY.

**JURISDICTIONAL APPROVAL**




1355 WEST UNIVERSITY DRIVE  
 MESA, AZ 85201-5419

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO AT&T WIRELESS  
 ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T WIRELESS IS STRICTLY PROHIBITED



8767 E. VIA DE VENTURA  
 SUITE 200  
 SCOTTSDALE, AZ 85258



REV.	DATE	REVISION DESCRIPTION
1	10-18-2021	CLIENT COMMENTS
0	07-16-2021	PCD ISSUED FOR REVIEW

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPEC'S, UNLESS SPECIFICALLY STATED OTHERWISE. THE MANUFACTURERS EQUIPMENT INSTALLATION SPEC'S SHALL ALWAYS BE VERIFIED BY THE CONTRACTOR BEFORE INSTALLATION

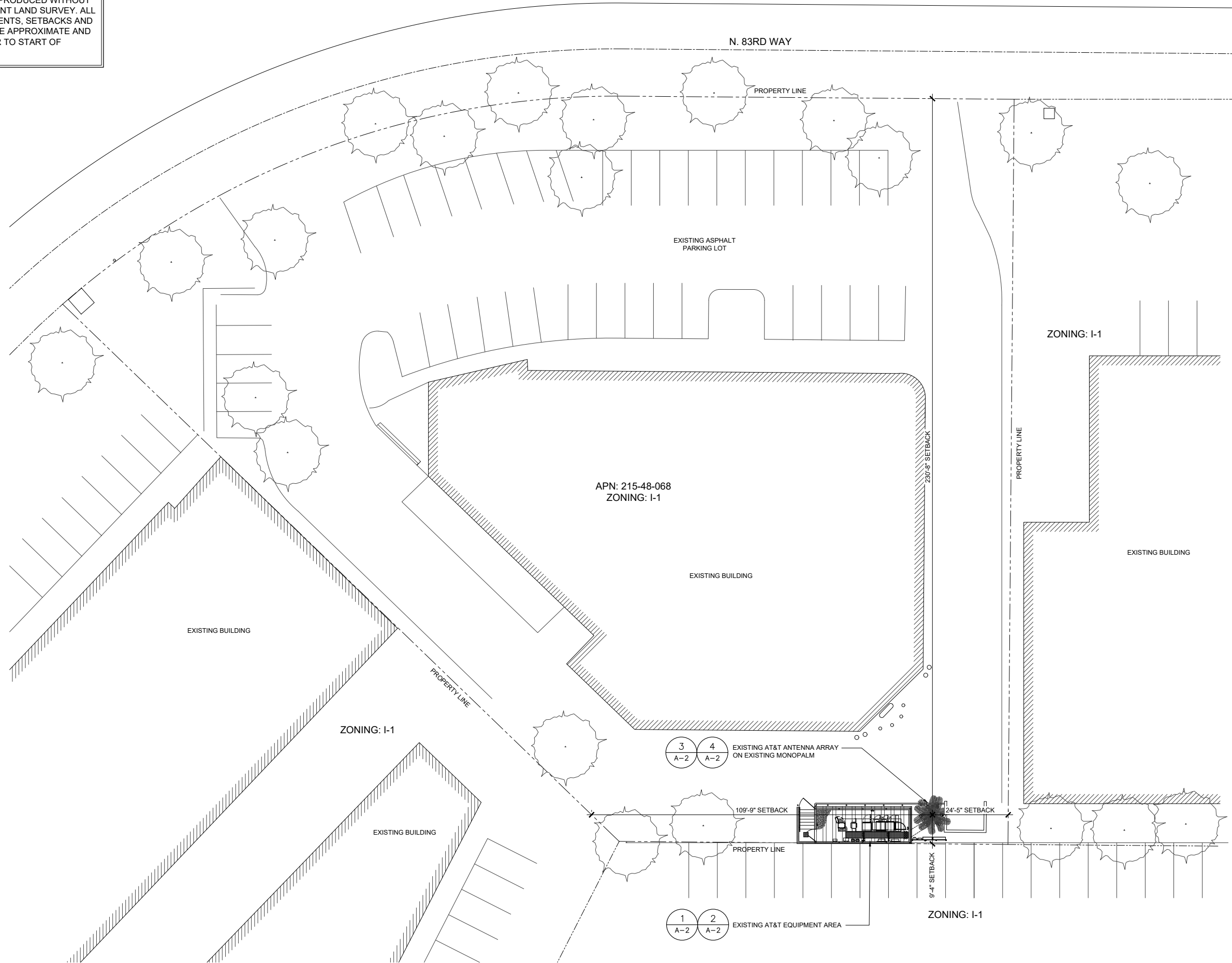
**PROJECT INFORMATION:**  
**W384 AZPHU3384 AZL03384**  
**CMC GOLF - MONOPALM-CANB**  
**15695 NORTH 83RD WAY**  
**SCOTTSDALE, AZ 85260**  
**MARICOPA COUNTY**

DRAWN BY: **HI** CHECKED BY: **MEW**

SHEET TITLE: **TITLE SHEET**

SHEET NUMBER: **T-1** REV.: **1**

NOTE:  
THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.



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MESA, AZ 85201-5419

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EXPIRES: 12/31/2022

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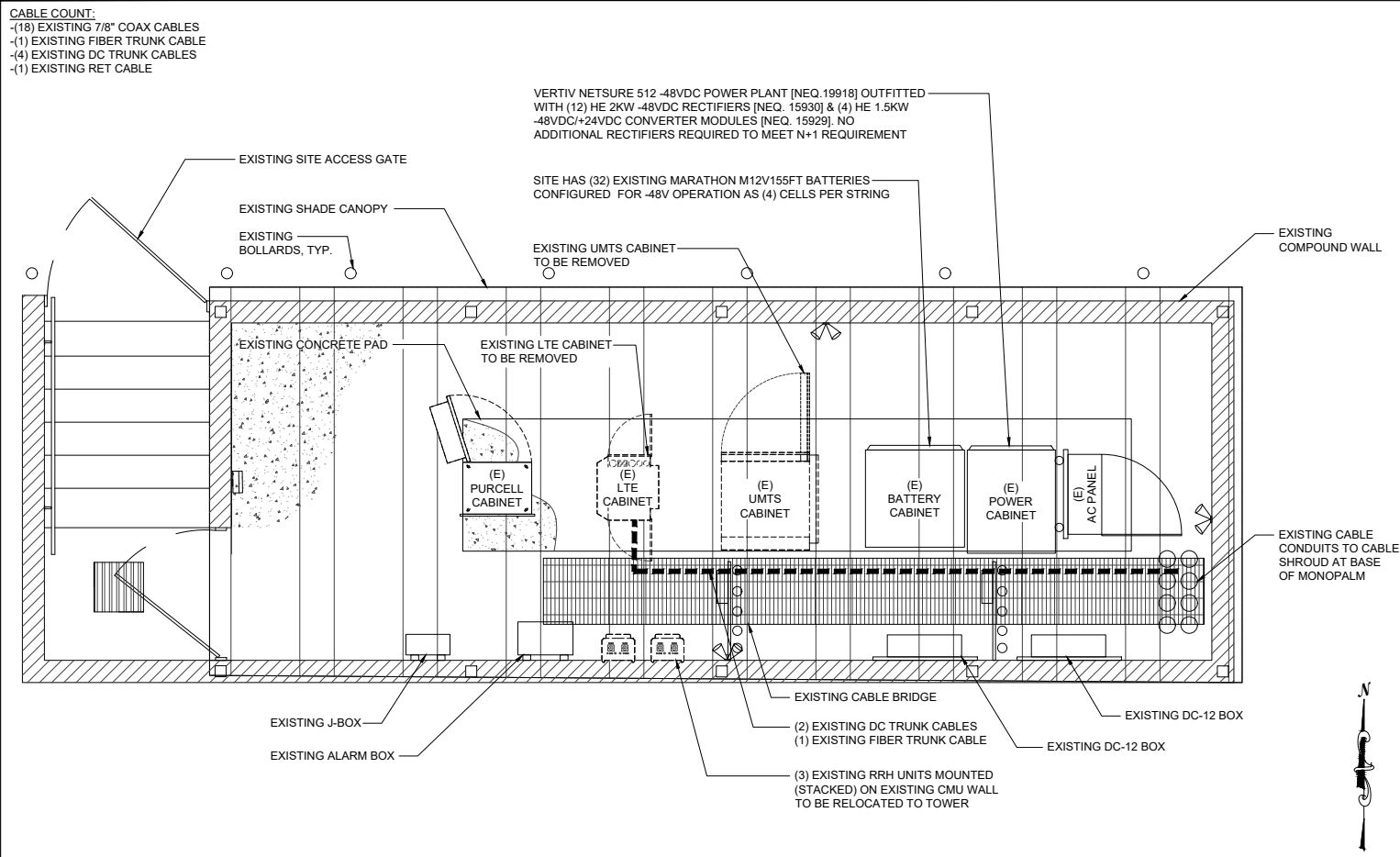
SHEET TITLE: SITE PLAN

SHEET NUMBER: A-1 REV.: 1

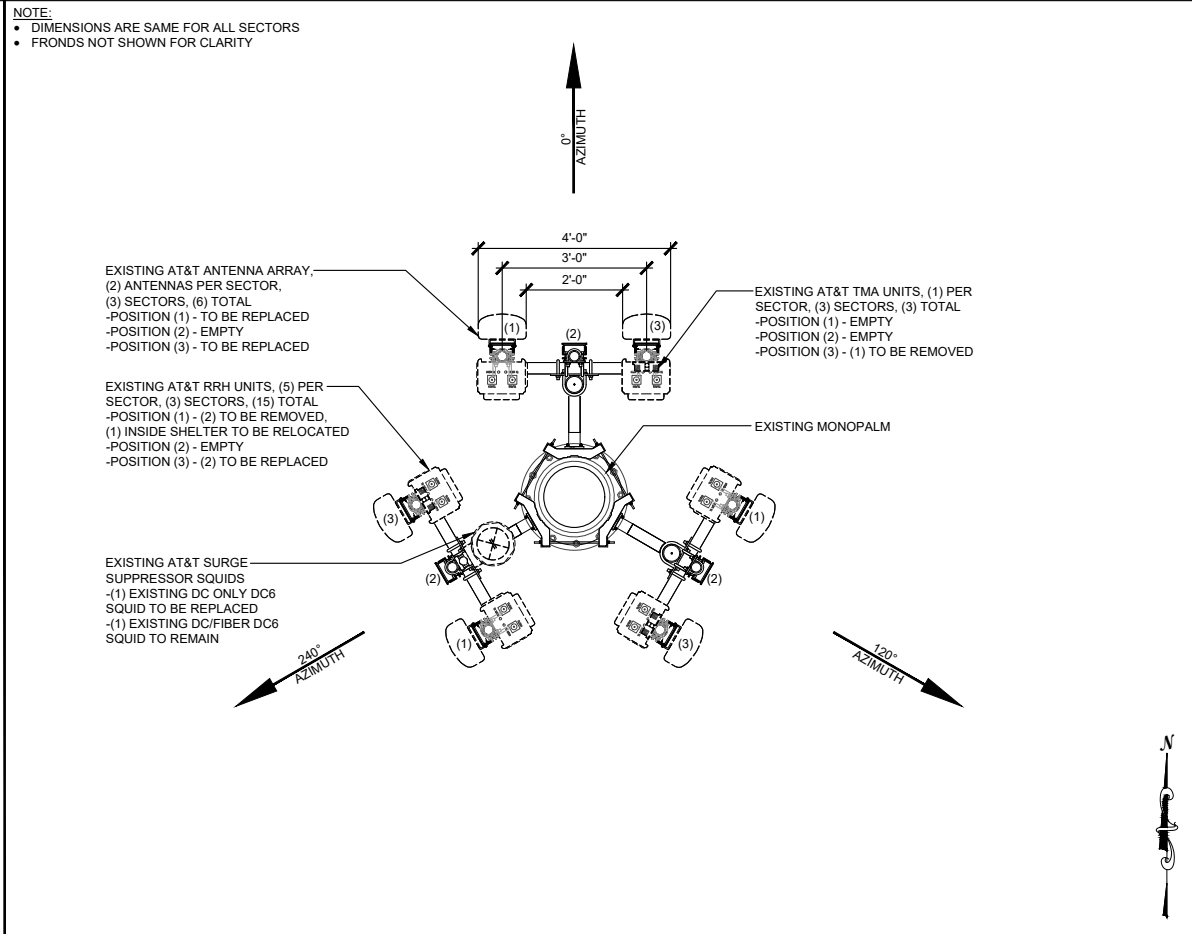
SITE PLAN

22"x34" SCALE: 1/16" = 1'-0"  
11"x17" SCALE: 1/32" = 1'-0"  
16' 12' 8' 4' 0' 16'

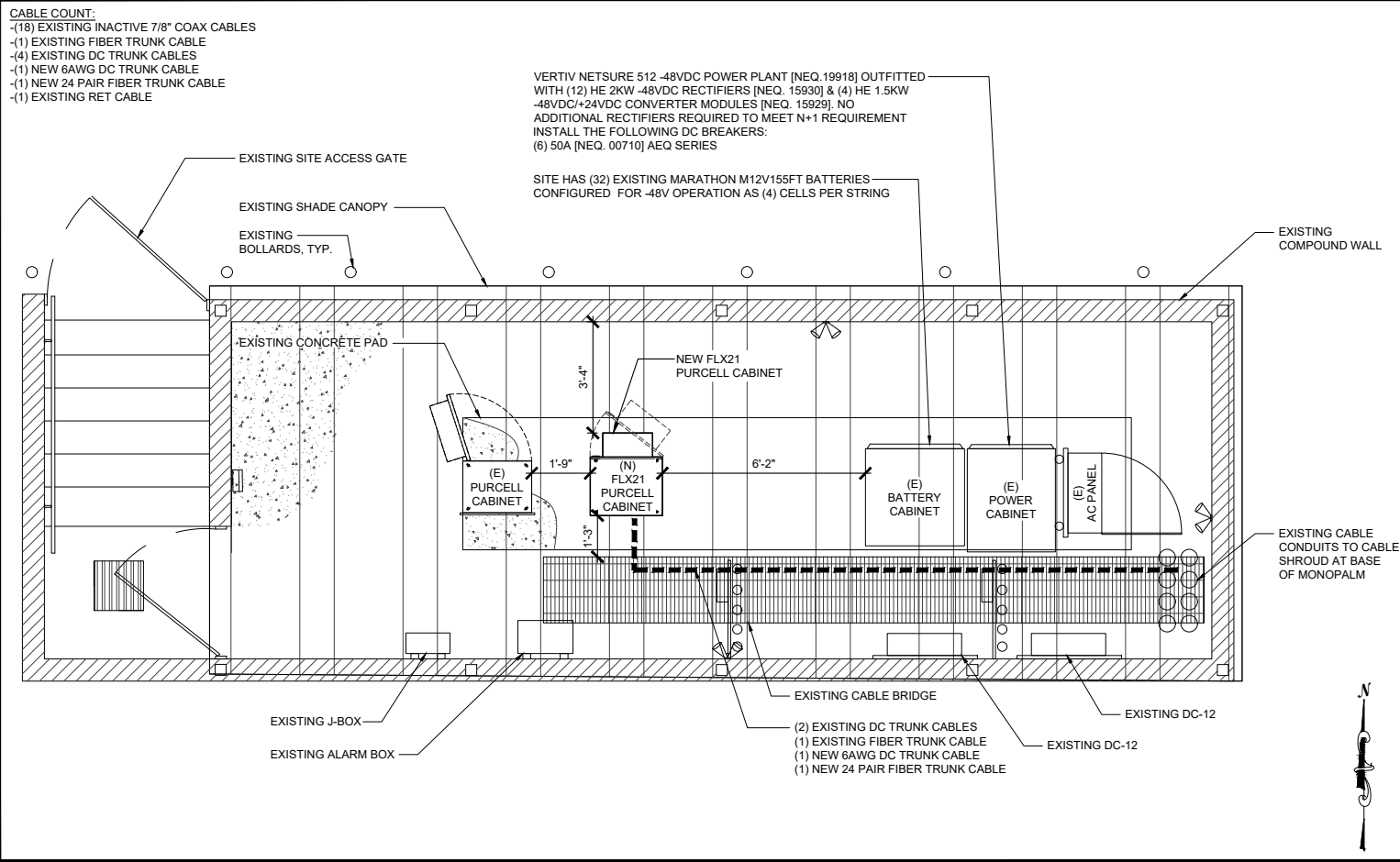
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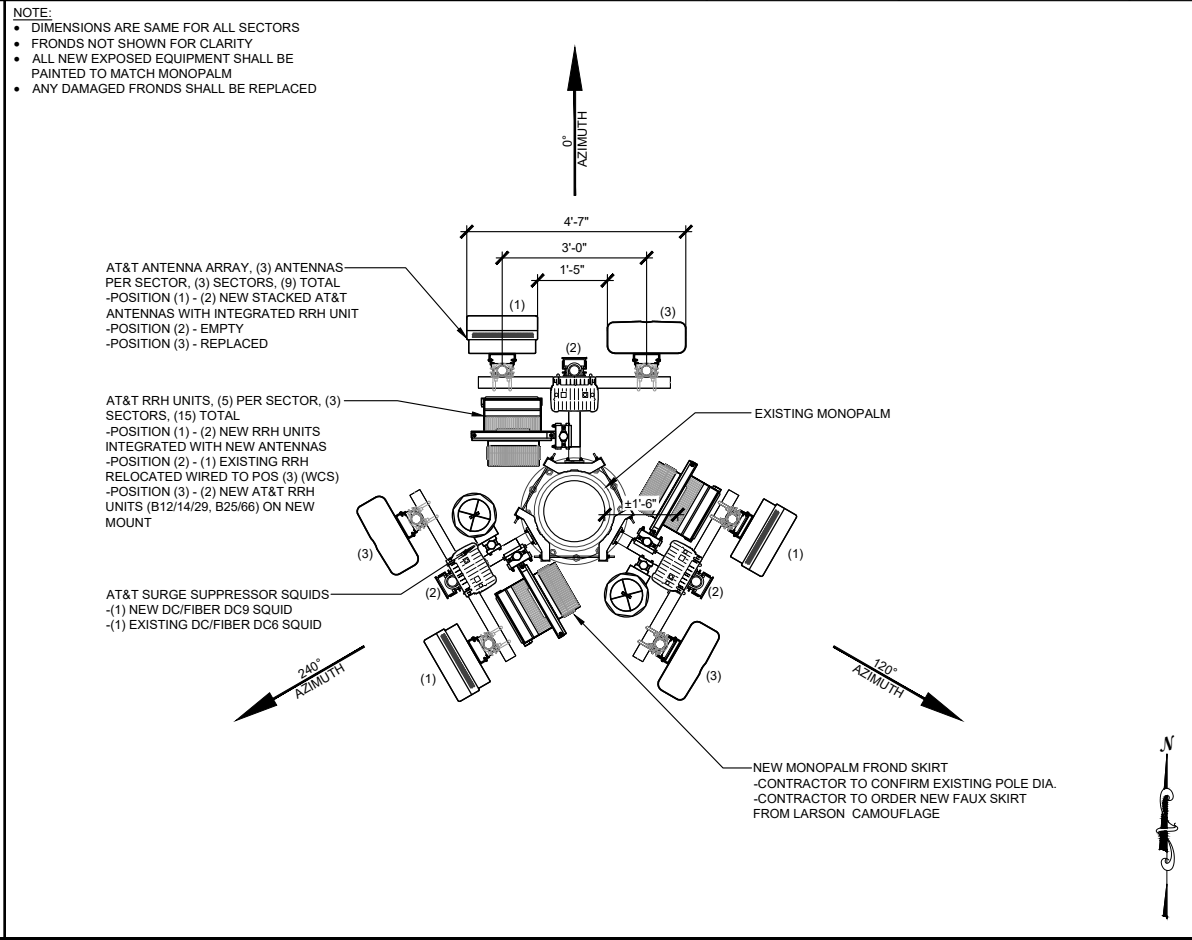
**EQUIPMENT PLAN - EXISTING** 22"x34" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0" 1



**ANTENNA LAYOUT - EXISTING** 22"x34" SCALE: 1/2" = 1'-0" 11"x17" SCALE: 1/4" = 1'-0" 3



**EQUIPMENT PLAN - NEW** 22"x34" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0" 2



**ANTENNA LAYOUT - NEW** 22"x34" SCALE: 1/2" = 1'-0" 11"x17" SCALE: 1/4" = 1'-0" 4

**AT&T**

1355 WEST UNIVERSITY DRIVE  
 MESA, AZ 85201-5419

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**smartlink**

8767 E. VIA DE VENTURA  
 SUITE 200  
 SCOTTSDALE, AZ 85258

Registered Professional Engineer (CIVIL)  
 CERTIFICATE NO. 51689  
 SAMUEL EDUARDO GONZALEZ  
 Date Signed 2/2/22  
 ARIZONA (U.S.A.)  
 EXPIRES: 12/31/2022

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 MARICOPA COUNTY

DRAWN BY: HI CHECKED BY: MEW

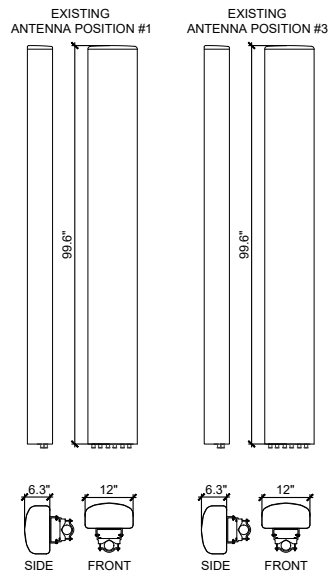
SHEET TITLE:  
**EQUIPMENT LAYOUT**

SHEET NUMBER: **A-2** REV.: **1**

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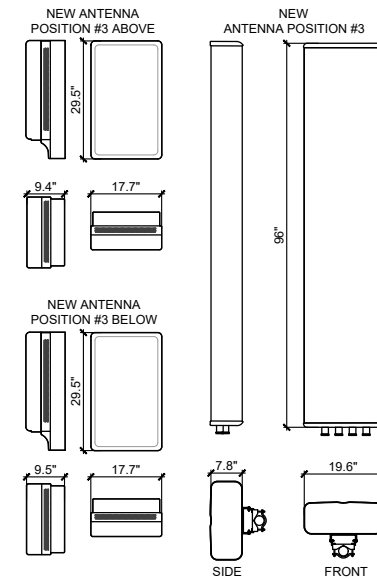
**CABLE COUNT:**  
 -(18) EXISTING 7/8" COAX CABLES  
 -(1) EXISTING FIBER TRUNK CABLE  
 -(4) EXISTING DC TRUNK CABLES  
 -(1) EXISTING RET CABLE

**NOTE:**  
 • DIMENSIONS ARE SAME FOR ALL SECTORS



**CABLE COUNT:**  
 -(1) EXISTING FIBER TRUNK CABLE  
 -(4) EXISTING DC TRUNK CABLES  
 -(1) NEW 6AWG DC TRUNK CABLE  
 -(1) NEW 24 PAIR FIBER TRUNK CABLE  
 -(1) EXISTING RET CABLE

**NOTE:**  
 • DIMENSIONS ARE SAME FOR ALL SECTORS  
 • ALL NEW EXPOSED EQUIPMENT SHALL BE PAINTED TO MATCH MONOPALM  
 • ANY DAMAGED FRONDS SHALL BE REPLACED



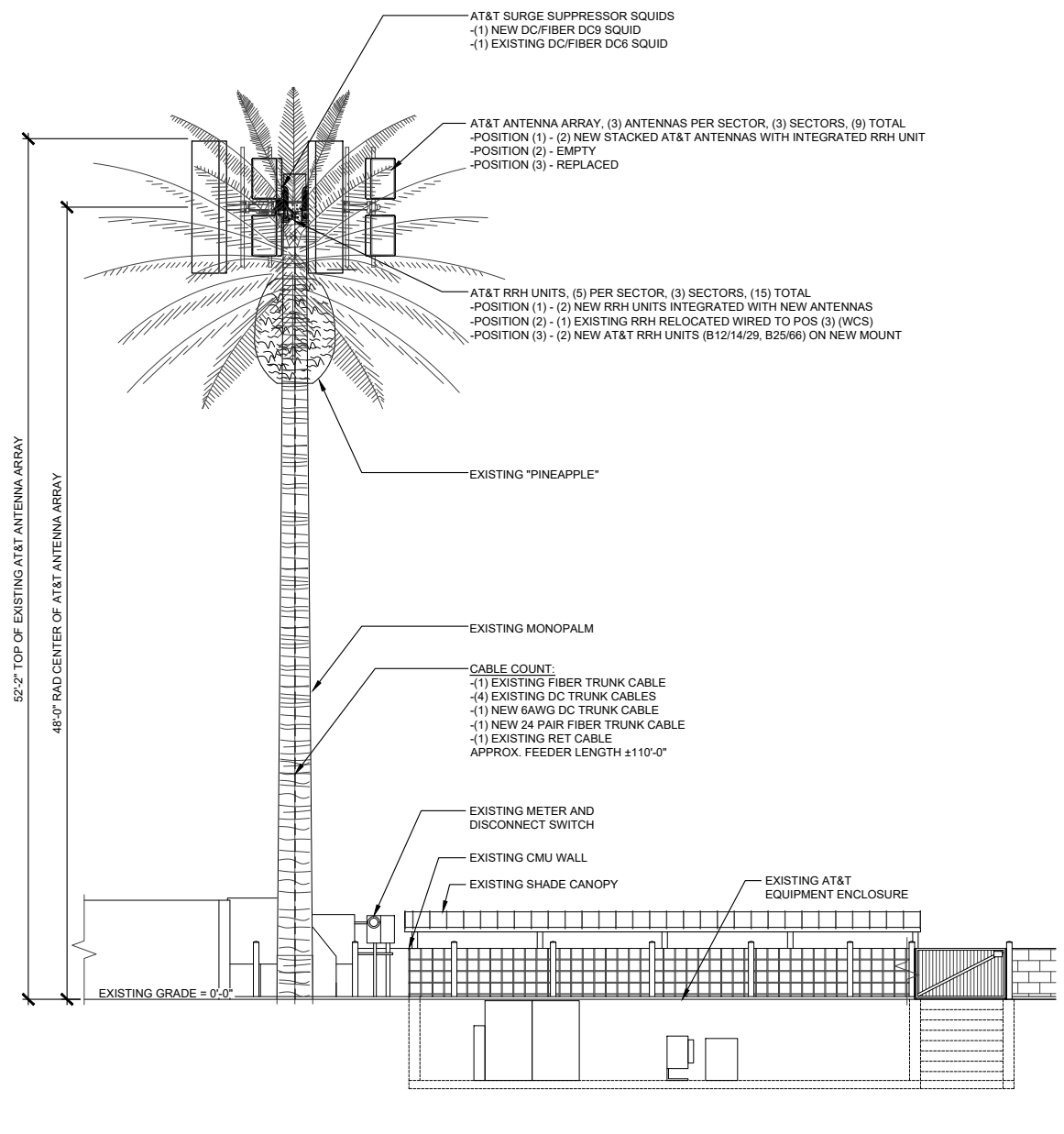
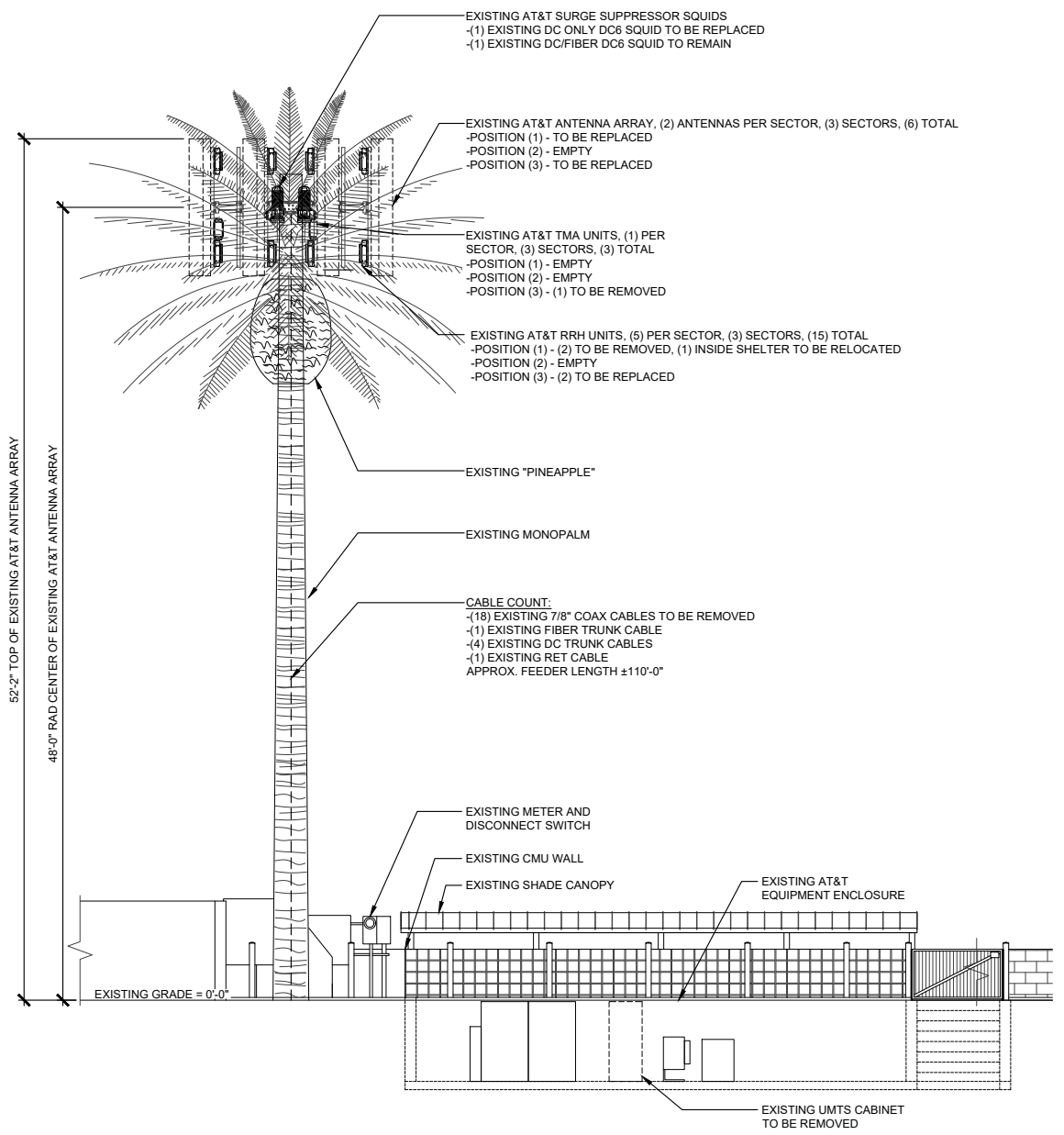
**AT&T**

1355 WEST UNIVERSITY DRIVE  
 MESA, AZ 85201-5419

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**PROJECT INFORMATION:**  
 W384 AZPHU3384 AZL03384  
 CMC GOLF - MONOPALM-CANB  
 15695 NORTH 83RD WAY  
 SCOTTSDALE, AZ 85260  
 MARICOPA COUNTY

DRAWN BY: **HI** CHECKED BY: **MEW**

SHEET TITLE:  
**ELEVATIONS  
 EXISTING & NEW**

SHEET NUMBER: **A-3** REV.: **1**

**NORTH ELEVATION - EXISTING**

22"x34" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"

**1 NORTH ELEVATION - NEW**

22"x34" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"

**2**

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EXPIRES: 12/31/2022

CMC GOLF - MONOPALM-CANB / W384											
AC POWER PANEL "A" (Existing)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A) :			200		SYSTEM VOLTAGE (V) :						240
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIER # 1 & 2	2000	nc	30	1	2000		2	20			SPARE / OFF
	2000	nc		3		2180		4	20	nc	180
RECTIFIER # 3 & 4	2000	nc	30	5	2000		6				BLANK
	2000	nc		7		2180		8	20	nc	180
RECTIFIER # 5 & 6	2000	nc	30	9	2000		10				BLANK
	2000	nc		11		2180		12	20	c	180
RECTIFIER # 7 & 8	2000	nc	30	13	2180		14	20	c	180	UMTS GFCI
	2000	nc		15		2000		16	20		
RECTIFIER # 9 & 10	2000	nc	30	17	2000		18				UMTS HT EXH /OFF
	2000	nc		19		2240		20	20	nc	240
RECTIFIER # 11 & 12	2000	nc	30	21	2180		22	20	nc	180	NEMA 4 GFCI
	2000	nc		23		2180		24	20	nc	180
SPARE (OFF)			30	25	0		26	20			SUMP PUMP # 2 (OFF)
				27		0		28			
SPARE (OFF)			30	29	0		30				BLANK
				31		0		32			
BLANK				33	0		34				BLANK
BLANK				35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK				39		0	40				BLANK
BLANK				41	0		42				BLANK
PHASE TOTALS (VA):				12360	12960						
CURRENT PER PHASE (A):				103	108	Amperes/phase cannot exceed main breaker rating					
PANEL TOTAL (VA):				25320		Legend: c = continuous, nc = non-continuous					
PANEL CAPACITY (kVA):		48.0		CONNECTED LOAD (kVA): 25.3							
PANEL LOADING (100% non-cont. load) (kVA):		25.0									
PANEL LOADING (125% continuous load) (kVA):		0.5									
PANEL LOADING (TOTAL) (kVA):		25.4									
SPARE CAPACITY (kVA):		22.6									

-NO CHANGES TO EXISTING AC PANEL-

'OTHER' LISTED ABOVE CONTAIN INSTRUCTIONS TO FILL  
OUT PANEL SCHEDULE SPREADSHEET. THEY ARE FOR  
NOT SUBJECT TO PERMIT REVIEW

EXISTING A/C PANEL

1 MODIFIED EXISTING A/C PANEL

2

1	10-18-2021	CLIENT COMMENTS
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REV.	DATE	REVISION DESCRIPTION

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MARICOPA COUNTY

DRAWN BY: HI CHECKED BY: MEW

SHEET TITLE:  
ELECTRICAL PANELS

SHEET NUMBER: E-1 REV.: 1





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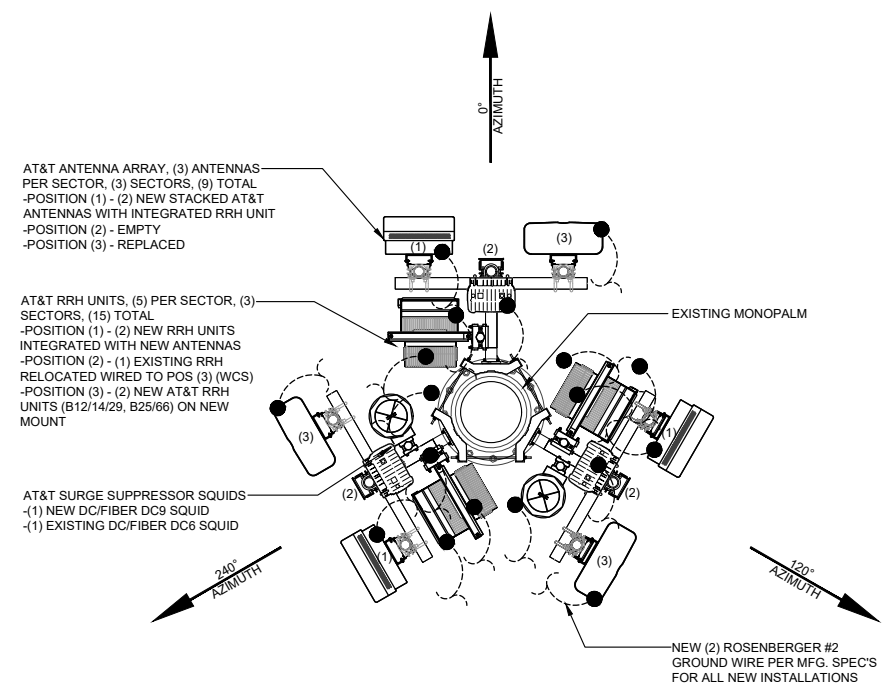
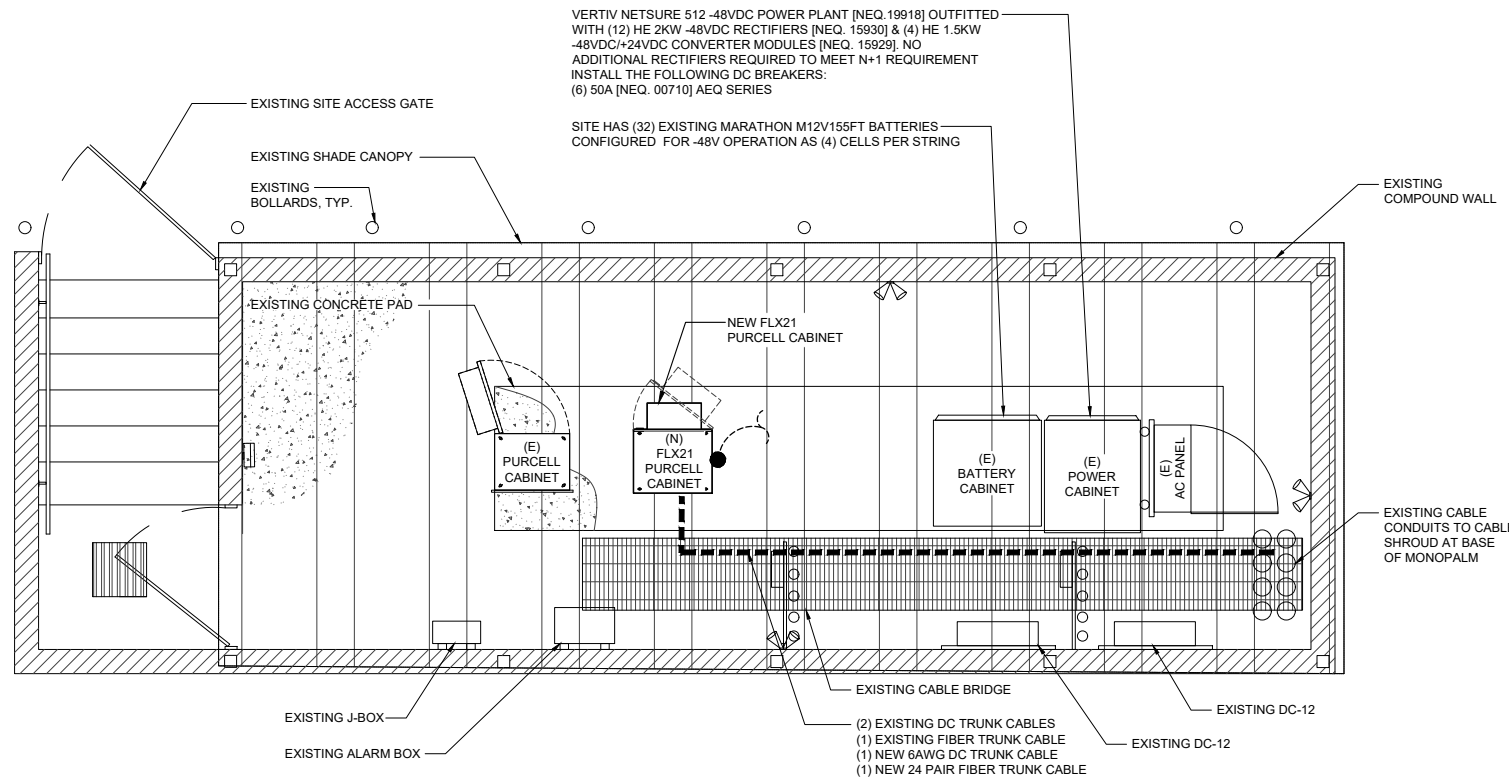
THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPEC'S, UNLESS SPECIFICALLY STATED OTHERWISE. THE MANUFACTURERS EQUIPMENT INSTALLATION SPEC'S SHALL ALWAYS BE VERIFIED BY THE CONTRACTOR BEFORE INSTALLATION

PROJECT INFORMATION:  
**W384 AZPHU3384 AZL03384**  
**CMC GOLF - MONOPALM-CANB**  
15695 NORTH 83RD WAY  
SCOTTSDALE, AZ 85260  
MARICOPA COUNTY

DRAWN BY: **HI** CHECKED BY: **MEW**

SHEET TITLE:  
**GROUNDING PLANS**

SHEET NUMBER: **E-3** REV.: **1**



LEGEND

■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
□	ANTENNA GROUND BAR
⊞	MASTER GROUND BAR

NOTE:  
• ALL NEW EQUIPMENT MUST BE GROUNDED TO GROUND RING OR HALO PER AT&T SPECIFICATIONS  
• CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.

22"x34" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"



**EQUIPMENT GROUNDING PLAN - NEW**

LEGEND

■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
□	ANTENNA GROUND BAR
⊞	MASTER GROUND BAR

NOTE:  
• ALL NEW EQUIPMENT MUST BE GROUNDED TO GROUND RING OR HALO PER AT&T SPECIFICATIONS  
• CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.

22"x34" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"



**ANTENNA GROUNDING PLAN - NEW**