<u>MO</u>	MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION STAFF REPORT						
Address:	7051 Carroll Ave., Takoma Park	Meeting Date:	1/6/2021				
Resource:	Non-Contributing Resource Takoma Park Historic District	Report Date:	12/30/2020				
Applicant:	Ryan Fitzgerald	Public Notice:	12/23/2020				
Review:	HAWP	Tax Credit:	n/a				
Permit No.:	933861	Staff:	Dan Bruechert				
Proposal:	Roof Antennas – removal and addition						

EXPEDITED

STAFF RECOMMENDATION

Approve N Approve with conditions

ARCHITECTURAL DESCRIPTION

SIGNIFICANCE:	Non-Contributing Resource to the Takoma Park Historic District
STYLE:	Modern
DATE:	c.1950-1970s



Figure 1: 7051 Carroll Ave.

PROPOSAL

The applicant proposes removing three (3) of the existing communication antennae from the roof of the 12-story building and installing two new antennae and additional hardware. Staff finds that the minor visual changes to the roof of the subject property will not have a substantial impact on the character of the Non-Contributing Resource or the character of the surrounding district.

APPLICABLE GUIDELINES

Policy On Use of Expedited Staff Reports for Simple HAWP Cases

IV. The Expedited Staff Report format may be used on the following type of cases:

2. Modifications to a property, which do not significantly alter its visual character.

Montgomery County Code; Chapter 24A-8

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
 - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
 - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
- (d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (*Ord. No. 9-4, § 1; Ord. No. 11-59.*)

Secretary of Interior's Standards for Rehabilitation

The Secretary of the Interior defines rehabilitation as "the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values." The relevant *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportions, and massing to protect the integrity of the property and its environment.
- 10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

STAFF RECOMMENDATION

Staff recommends that the Commission **approve** the HAWP application under the Criteria for Issuance in Chapter 24A-8(b)(1), (2), and (d), having found that the proposal will not substantially alter the exterior

features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the Secretary of the Interior's Standards for Rehabilitation #2, 9, and 10;

and with the general condition that the applicant shall present the **3 permit sets of drawings, if applicable, to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans. Once the work is completed the applicant will <u>contact the staff person</u> assigned to this application at 301-563-3400 or <u>dan.bruechert@montgomeryplanning.org</u> to schedule a follow-up site visit.

APPLICATIO HISTORIC AREA W HISTORIC PRESERVATION 301.563.340	ORK PERMIT
APPLICANT:	
Name: Ryan Fitzgerald	E-mail: Manifitzgerald
Address: 1362 Mellon Rd Su.140	City: <u>Hanover</u> Zip: 21076
Daytime Phone: 443.417.3414	Tax Account No.: 13 - 01072074
AGENT/CONTACT (if applicable):	
Name: Kelsey Hollingshead	E-mail: Kelsey, hollingshead
Address: 1362 Mellon Rd Sy.140	City: Handver Zip: 21076
Daytime Phone: 443, 417, 34	Contractor Registration No.:A
LOCATION OF BUILDING/PREMISE: MIHP # of Histori	c Property #37/03
Is the Property Located within an Historic District?	Ves/District Name Tak on a Park Historic
Is there an Historic Preservation/Land Trust/Environme map of the easement, and documentation from the Easement	ental Easement on the Property? If YES, include a
Are other Planning and/or Hearing Examiner Approvals (Conditional Use, Variance, Record Plat, etc.?) If YES, in supplemental information. N_0	
Building Number: Street: 205	arroll Avenue
Town/City: <u><u><u>Rockville</u></u> Nearest Cros</u>	s Street:
Lot: Block:F Subdivision:	0025 Parcel: 0000
TYPE OF WORK PROPOSED: See the checklist on Particular for proposed work are submitted with this application be accepted for review. Check all that apply: New Construction Deck/Porch Addition Fence Demolition Hardscape/Lands Grading/Excavation Roof I hereby certify that I have the authority to make the for and accurate and that the construction will comply wit agencies and hereby acknowledge and accept this to be for any for the supervised of the su	age 4 to verify that all supporting items ition. Incomplete Applications will not Shed/Garage/Accessory Structure Solar Tree removal/planting cape Window/Door Other: <u>Pelecomm - Antenna</u> Mudification pregoing application, that the application is correct h plans reviewed and approved by all necessary be a condition for the issuance of this permit.
Signature of owner or authorized agent	Date

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Description of Work Proposed: Please give an overview of the work to be undertaken:

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Work Item 1: (3) NEW NNHH-65A-RY antennas Description of Current Condition: Proposed Work: (9) existing antennas (3) per sector on rooftop. Take (3) down (1) per Take (3) existing antennas down put these (3) new Commscope NNIHH-65A-RY antennas up. Sector. Work Item 2: NA Description of Current Condition: Proposed Work:

Work Item 3: NA		
Description of Current Condition:	Proposed Work:	

HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*



DEPARTMENT OF PERMITTING SERVICES

Mitra Pedoeem Director

Marc Elrich County Executive

HISTORIC AREA WORK PERMIT APPLICATION

Application Date: 11/18/2020

Application No: 933861 AP Type: HISTORIC Customer No: 1364223

Affidavit Acknowledgement

The Contractor is the Primary applicant authorized by the property owner This application does not violate any covenants and deed restrictions

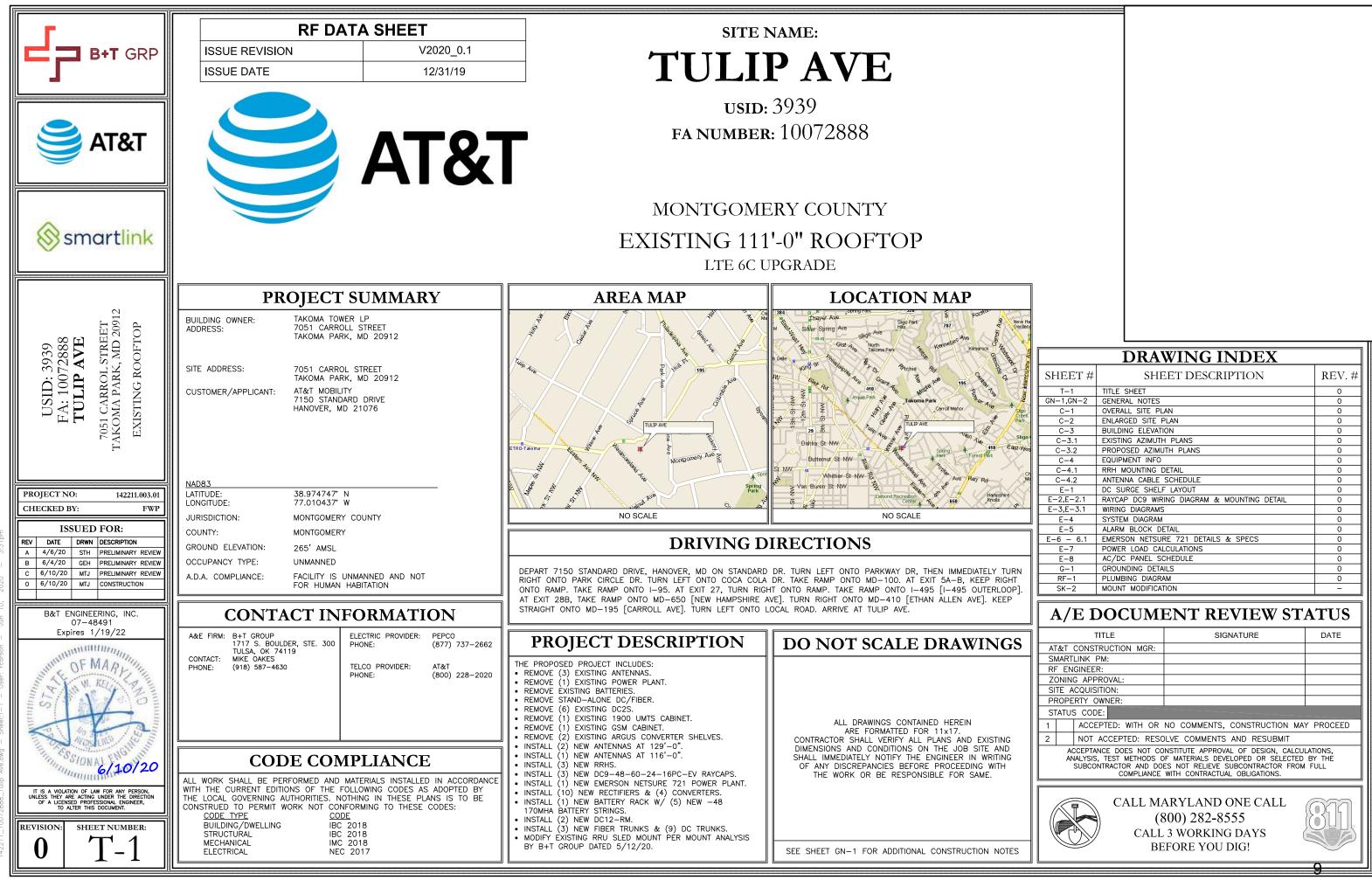
Primary Applicant Information

Address 7051 CARROLL AVE TAKOMA PARK, MD 20912

Othercontact Fitzgerald (Primary)

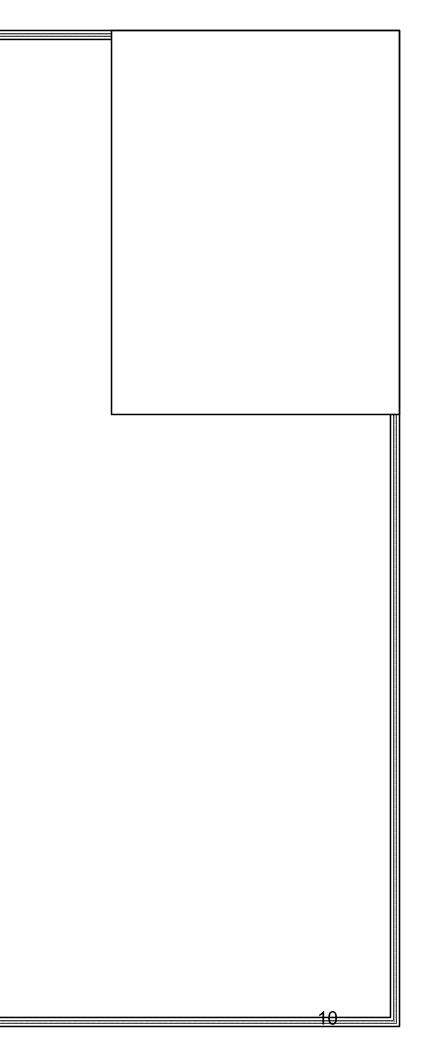
Historic Area Work Permit Details

Work TypeALTERScope of WorkAT&T proposes to remove (3) existing antennas and install (2) new antennas at 129', (1) new antenna at 116' and (3) new RRHs.

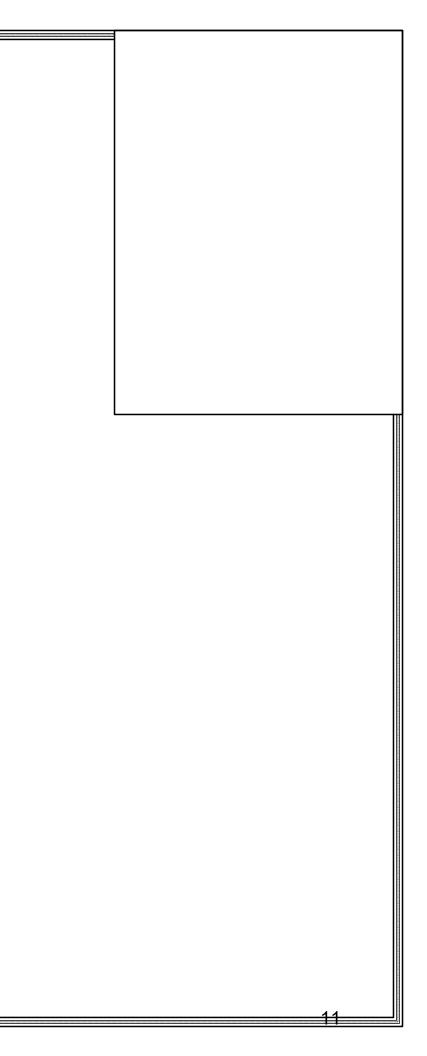


SHEET #	SHEET DESCRIPTION	REV. #					
T-1	TITLE SHEET	0					
GN-1,GN-2	GENERAL NOTES	0					
C-1	OVERALL SITE PLAN	0					
C-2	ENLARGED SITE PLAN	0					
C-3	BUILDING ELEVATION	0					
C-3.1	EXISTING AZIMUTH PLANS	0					
C-3.2	PROPOSED AZIMUTH PLANS	0					
C-4	EQUIPMENT INFO	0					
C-4.1	RRH MOUNTING DETAIL	0					
C-4.2	ANTENNA CABLE SCHEDULE	0					
E-1	DC SURGE SHELF LAYOUT	0					
E-2,E-2.1	RAYCAP DC9 WIRING DIAGRAM & MOUNTING DETAIL	0					
E-3,E-3.1	WIRING DIAGRAMS	0					
E-4	SYSTEM DIAGRAM	0					
E-5	ALARM BLOCK DETAIL	0					
E-6 - 6.1	EMERSON NETSURE 721 DETAILS & SPECS	0					
E-7	POWER LOAD CALCULATIONS	0					
E-8	AC/DC PANEL SCHEDULE	0					
G-1	GROUNDING DETAILS	0					
RF-1	PLUMBING DIAGRAM	0					
SK-2	MOUNT MODIFICATION	-					

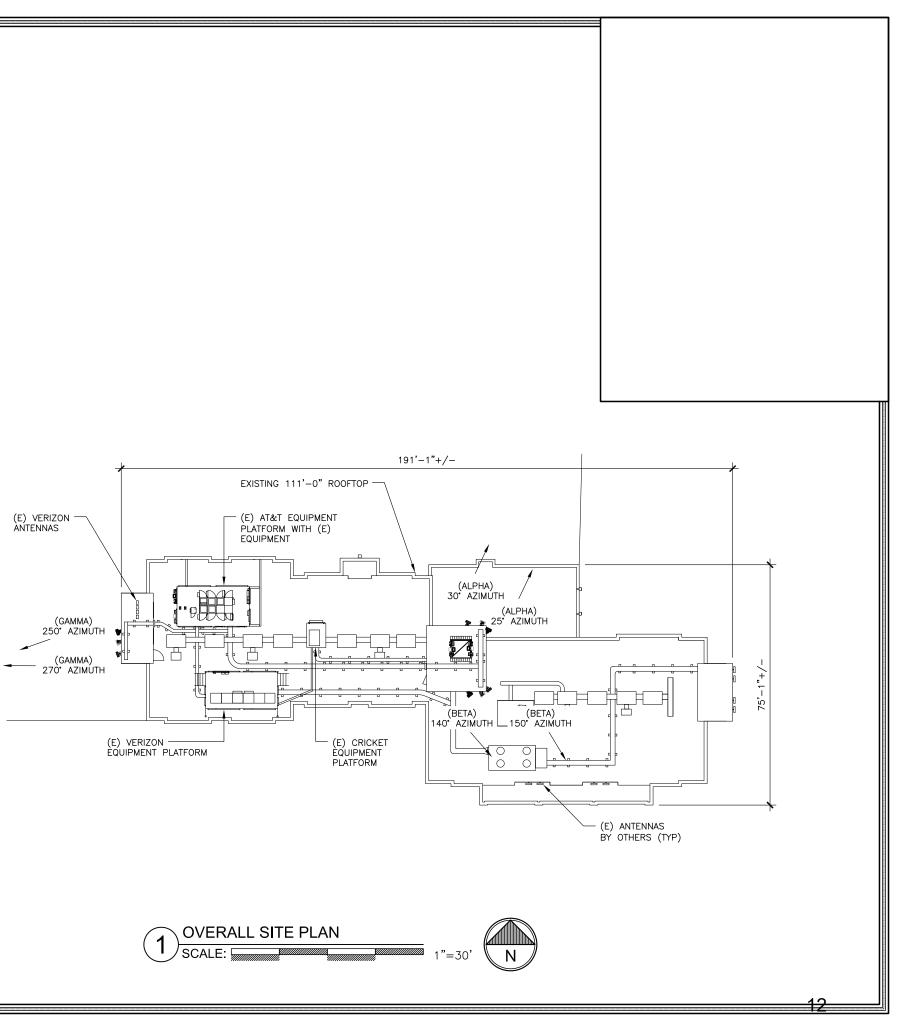
	PROJECT COMPLIANCE NOTES:	ELECTRICAL INSTALLATION NOTES:
	1. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE AND IS NOT FOR HUMAN HABITAT.	ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
	 (NO HANDICAP ACCESS IS REQUIRED). OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL, UNLESS DURING 	CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
	 NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL, UNLESS DURING EMERGENCY. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED. 	WIRING, RACEWAY & SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
	 ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AT&T SYSTEM GROUNDING STANDARDS. "TECHNICAL SPECIFICATION FOR 	ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
😂 AT&T	CONSTRUCTION OF LTE SITES AND WILL FOLLOW AT&T GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES AT&T DOC ID ATT-TP-76416 AND AT&T POLICY	CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
	LETTER ATT-CEM-13002. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED DURING CONSTRUCTION OPERATION. 7. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.	EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR APPROVED EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
	 INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE APPLICANT REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY TURF VENDOR OF ANY 	ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL
	DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION. 9. NO ADDITIONAL PARKING IS PROPOSED. EXISTING ACCESS AND PARKING WILL BE USED. 10. NO ADDITIONAL LANDSCAPING IS PROPOSED AT THIS SITE.	EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
Smartlink	11. ALL COAXIAL CABLE/FIBER AND DC CABLE INSTALLATION IS TO FOLLOW MANUFACTURER'S INSTRUCTION.	PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
		ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
	GREENFIELD GROUNDING NOTES:	POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR
0	ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE	90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
ET 091.	COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING	SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE
: 3939)72888 ? AVE JL STREET RK, MD 20912 ROOFTOP	(PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST	RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
39 39 39 30 39 30 30 30 30 30 30 30 30 30 30 30 30 30	RESULT OF 5 OHMS OR LESS. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND	POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED
	UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.	FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
USID: 3939 FA: 10072888 TULIP AVE 7051 CARROL STREF 7051 CARROL STREF AKOMA PARK, MD 2 EXISTING ROOFTC	METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER	ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR APPROVED EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO
705 AK	WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.	LESS THAN 75° C (90° C IF AVAILABLE). RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA.
Ę	METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.	UL, ANSI/IEEE AND NEC. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID
PROJECT NO: 142211.003.01	EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.	PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
CHECKED BY: FWP	CONNECTIONS TO THE GROUND BAR SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BAR ARE PERMITTED.	ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
REV DATE DRWN DESCRIPTION A 4/6/20 STH PRELIMINARY REVIEW	ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.	GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
B 6/4/20 GEH PRELIMINARY REVIEW C 6/10/20 MTJ PRELIMINARY REVIEW 0 6/10/20 MTJ CONSTRUCTION	ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.	RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
B&T ENGINEERING, INC.	USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.	LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
07-48491	EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.	CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
	ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.	CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL,
DE MARINE	COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.	ANSI/IEEE AND NEC.
N. KILL	ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.	WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR APPROVED EQUAL); AND RATED NEMA 1 (OR BETTER).
Expires 1/19/22	APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.	EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY—COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
	ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.	METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING;
10120 10120 10120	MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.	SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION	BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH $1-#2$ AWG TIN-PLATED COPPER GROUND CONDUCTOR.	NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.	GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH	THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
REVISION: SHEET NUMBER:	AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL	THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
U GN-I	CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.	INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T WIRELESS".

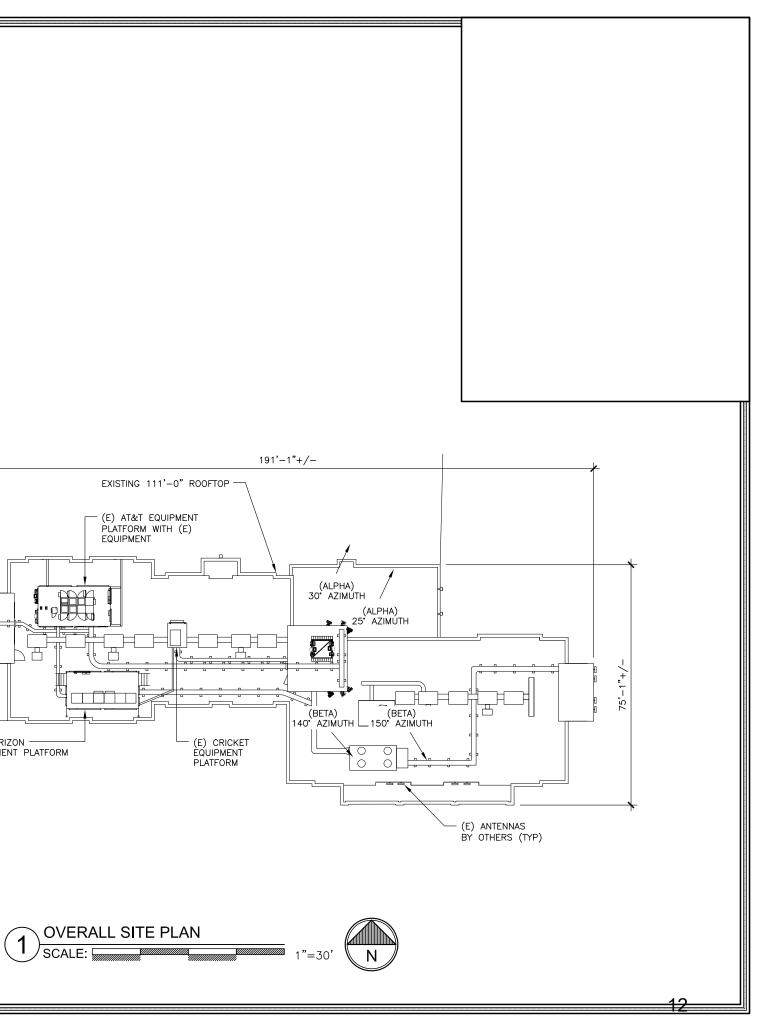


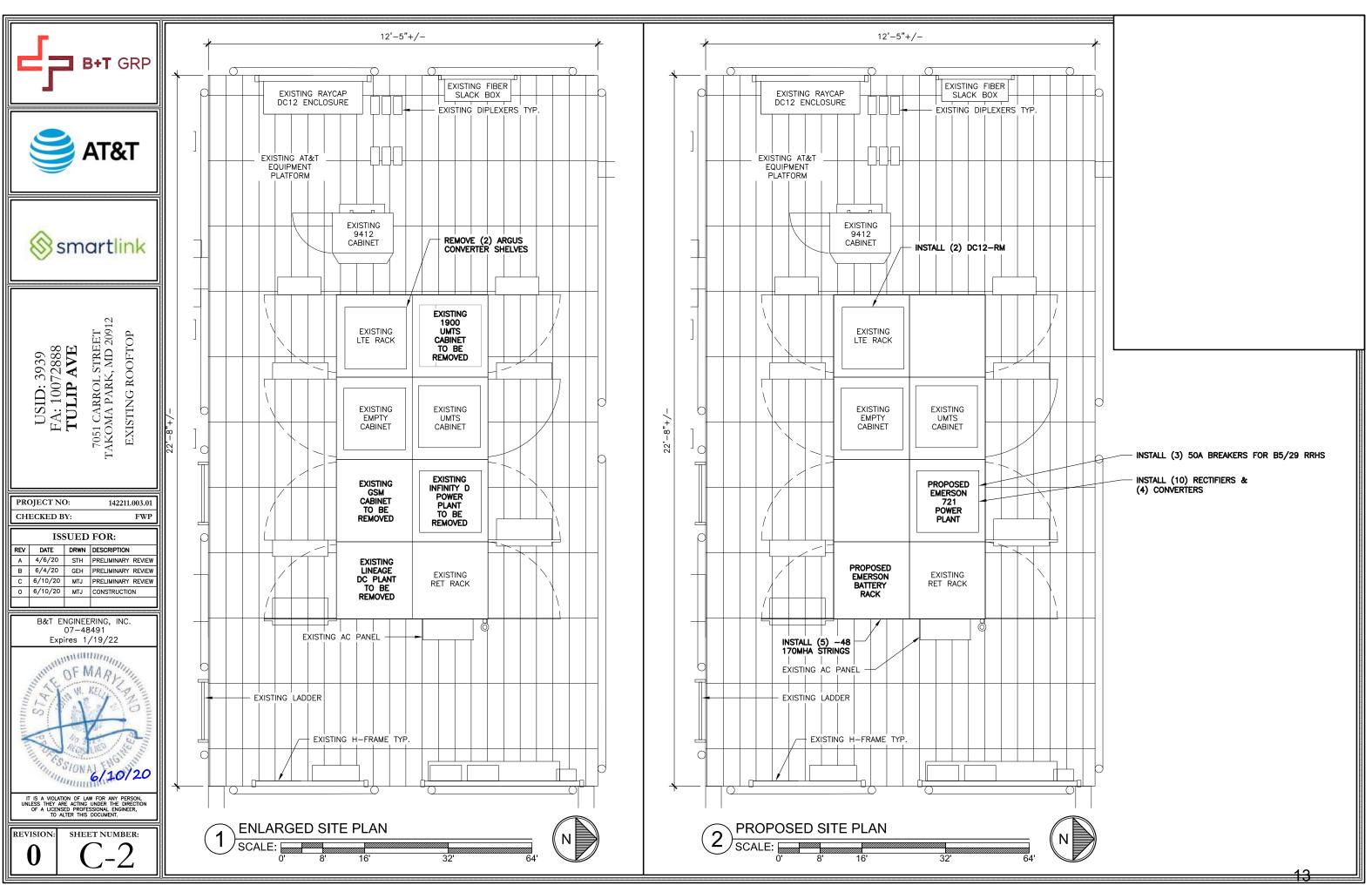
	PROJECT GENERAL NOTES:
	1. OR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR
	2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
AT&T	3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
0.75	4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
Smartlink	 UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTEMANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
	6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
912	7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
USID: 3939 FA: 10072888 TULIP AVE 7051 CARROL STREET TAKOMA PARK, MD 20912 EXISTING ROOFTOP	8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
D: 39 0072 0072 0072 S02 SRO, 5 ROL 5 RO, 5	9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
USID: 3939 FA: 10072888 TULIP AVE 51 CARROL STREF OMA PARK, MD 2 XISTING ROOFTC	10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
705 TAKC	11. 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.
	12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
PROJECT NO: 142211.003.01 CHECKED BY: FWP	13. CONSTRUCTION SHALL COMPLY WITH MOBILITY RAN POWER & INFRASTRUCTURE HARDWARE POLICY ATT-CEM-18006, "HOSE CLAMP & METAL SNAP-IN SUPPORTS PIM PROBLEM RESOLUTION". CONTRACTORS DOING WORK IN THE HIGH RISK PIM ZONE AREAS ARE TO MINIMIZE OR ELIMINATE EXTERNAL PIM SOURCES CAUSED BY CLAMPS AND CABLING.
ISSUED FOR:	
A 4/6/20 STH PRELIMINARY REVIEW B 6/4/20 GEH PRELIMINARY REVIEW	ABBREVIATIONS AND SYMBOLS:
C 6/10/20 MTJ PRELIMINARY REVIEW 0 6/10/20 MTJ CONSTRUCTION	ABBREVIATIONS: SYMBOLS:
B&T ENGINEERING, INC.	AGL ABOVE GRADE LEVEL S/G SOLID GROUND BUS BAR BTS BASE TRANSCEIVER STATION (E) EXISTING S/N SOLID NEUTRAL BUS BAR
07-48491	MÍN. MINIMUM N.T.S. NOT TO SCALE SUPPLEMENTAL GROUND CONDUCTOR
OF MARK	REF REFERENCE RF RADIO FREQUENCY 2-POLE THERMAL-MAGNETIC CIRCUIT T.B.D. TO BE DETERMINED BREAKER
W. KELL A	T.B.R. TO BE RESOLVED TYP TYPICAL SINGLE-POLE THERMAL-MAGNETIC REQ REQUIRED CIRCUIT BREAKER
IS STORES	AWG AMERICAN WIRE GAUGE CHEMICAL GROUND ROD
at to ball	EG EQUIPMENT GROUND 🚫 TEST WELL BCW BARE COPPER WIRE
58510NAL ENGINE	SIAD SMART INTEGRATED ACCESS DEVICE D' DISCONNECT SWITCH GEN GENERATOR IGR INTERIOR GROUND RING (HALO) METER RBS RADIO BASE STATION
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.	
REVISION: SHEET NUMBER:	
0 GN-2	



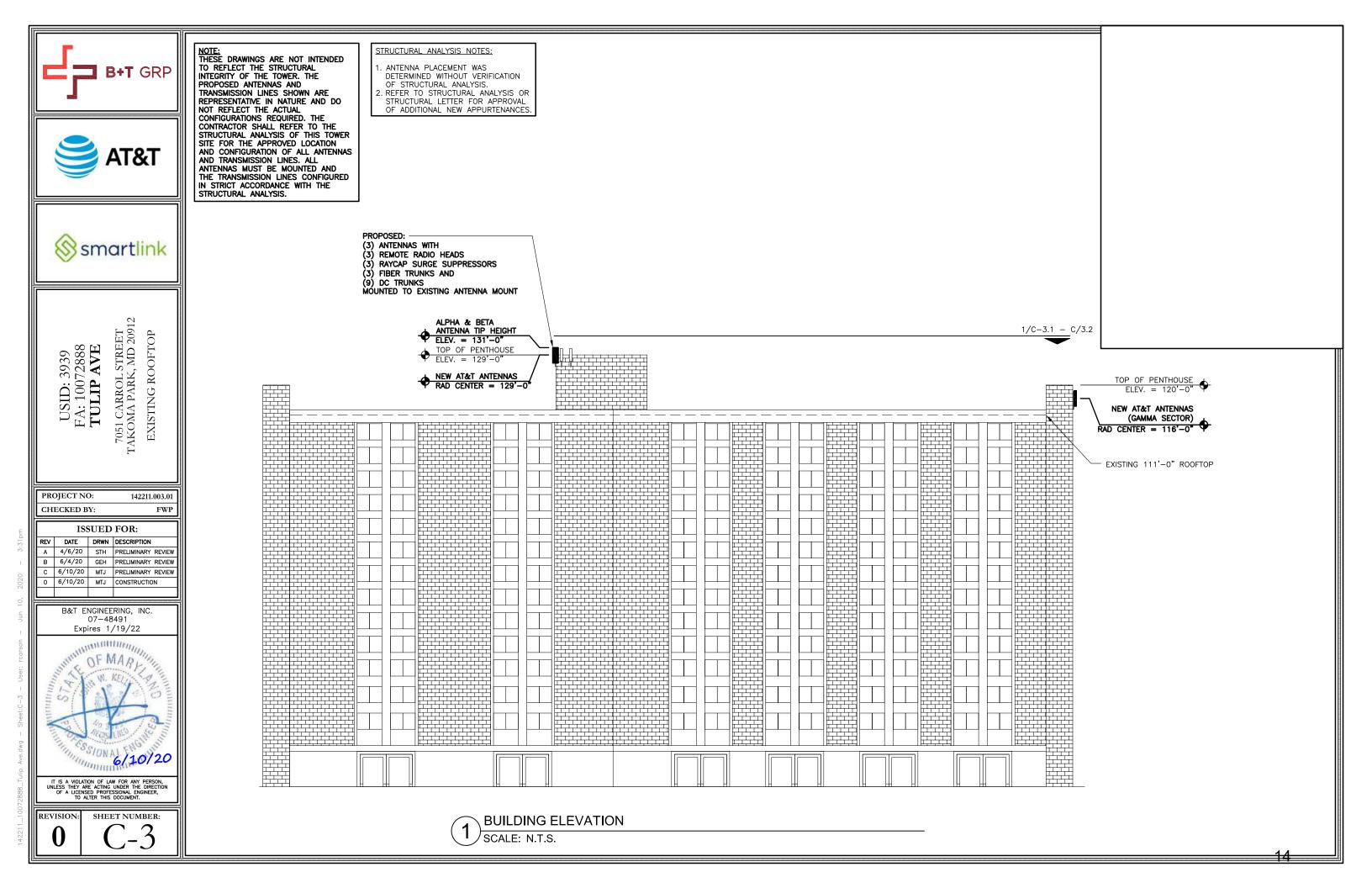


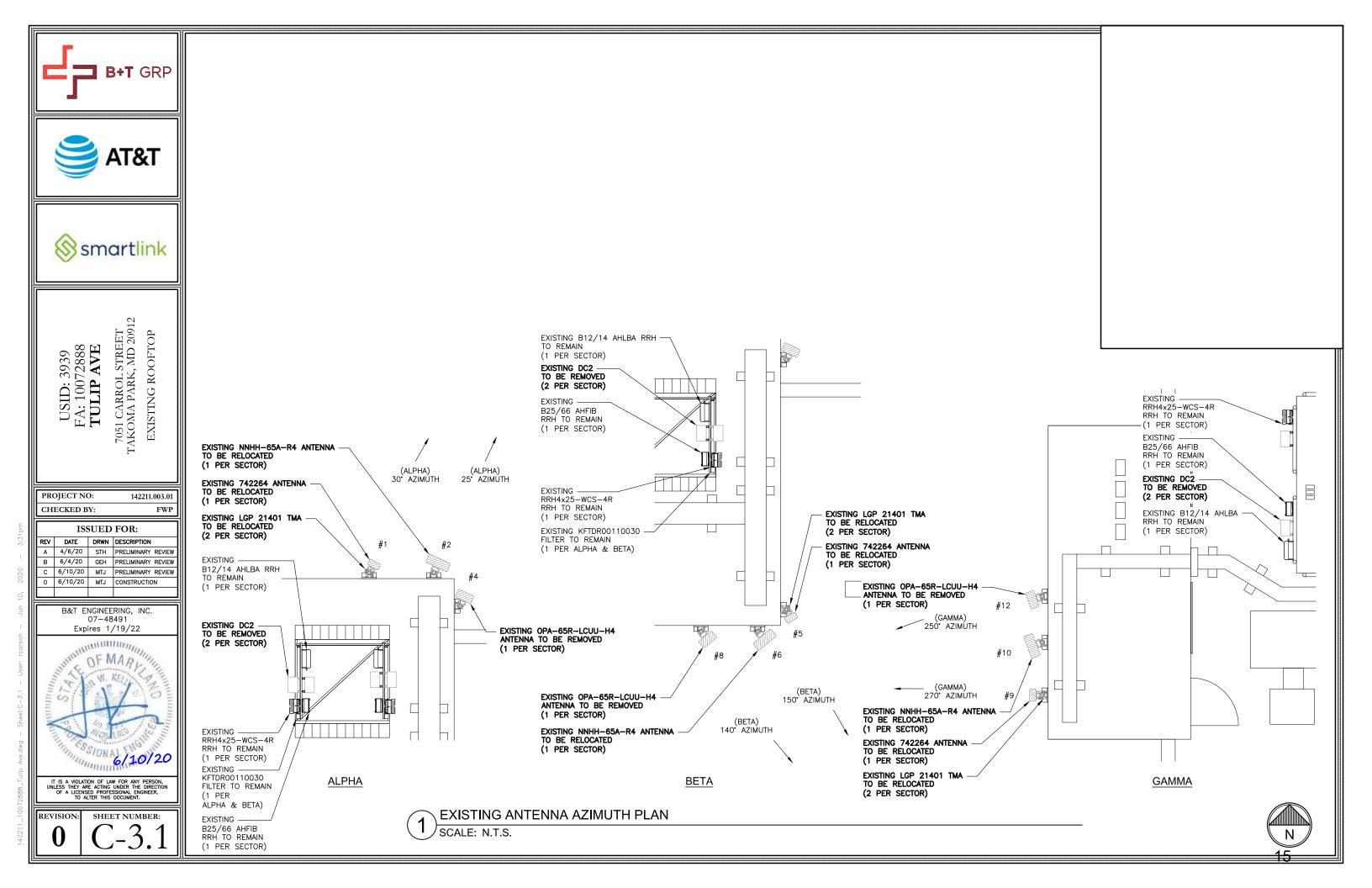


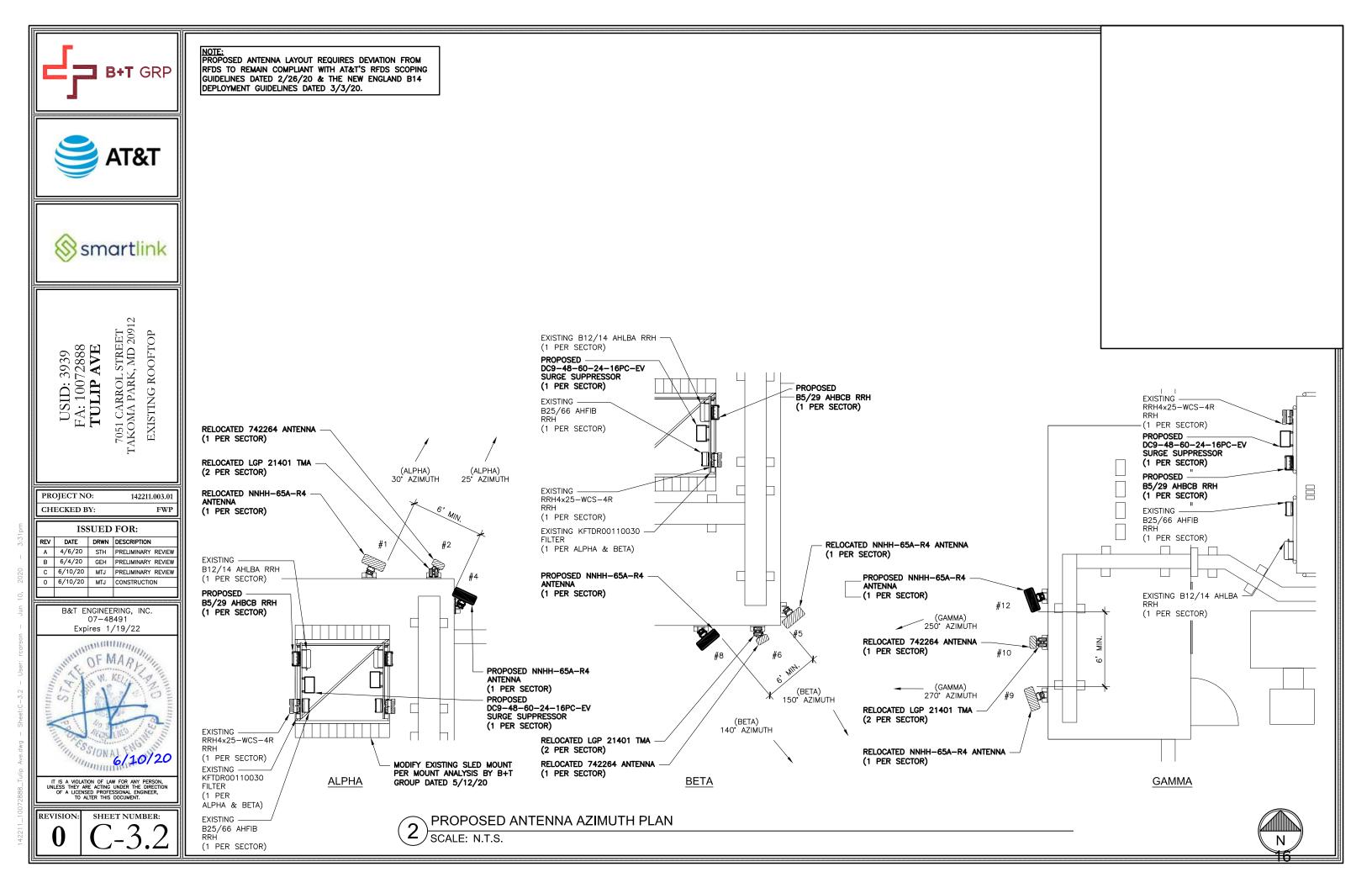


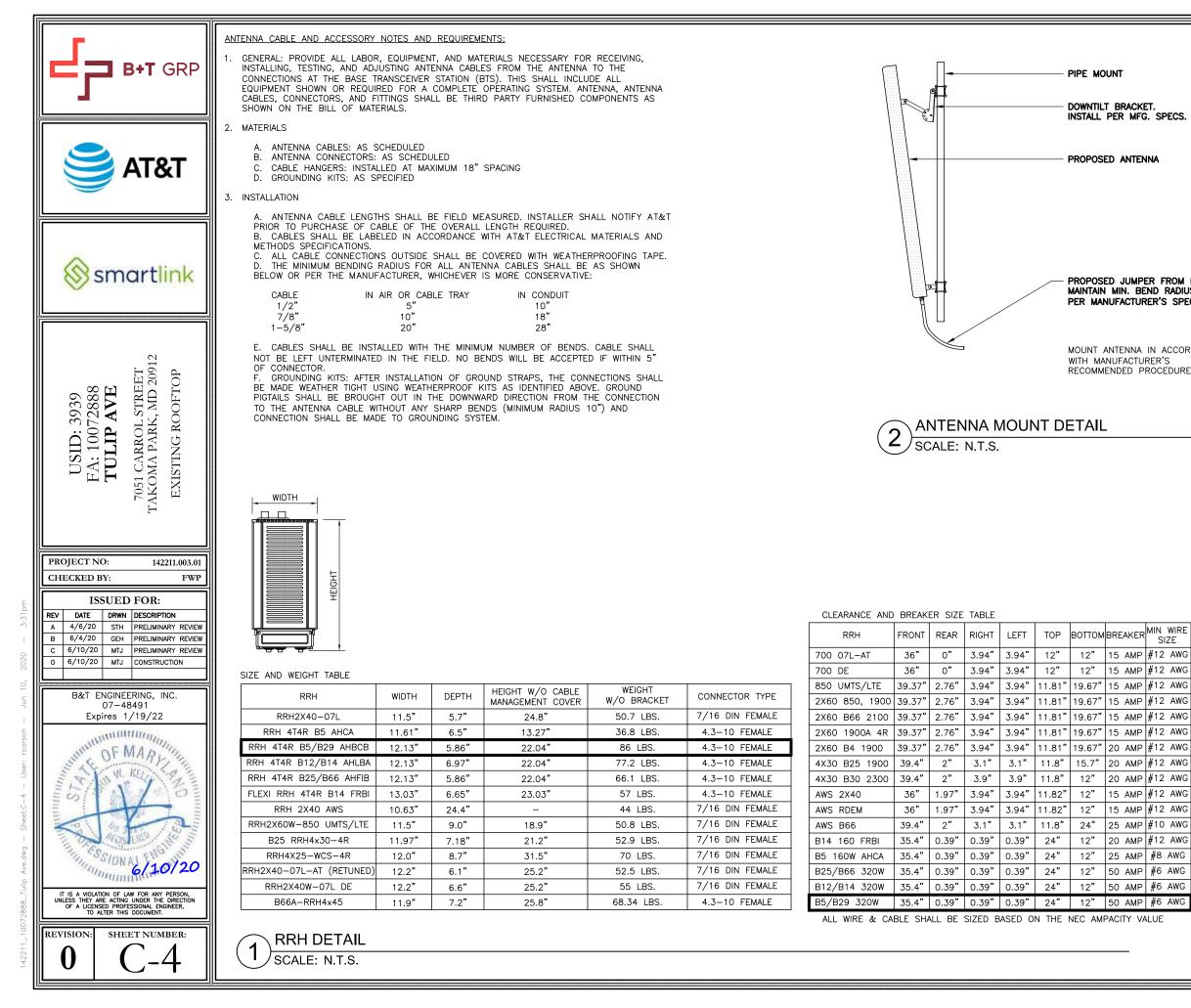


.0072888_Tulip Ave.dwg - Sheet:C-2 - User: rcarson - Jun



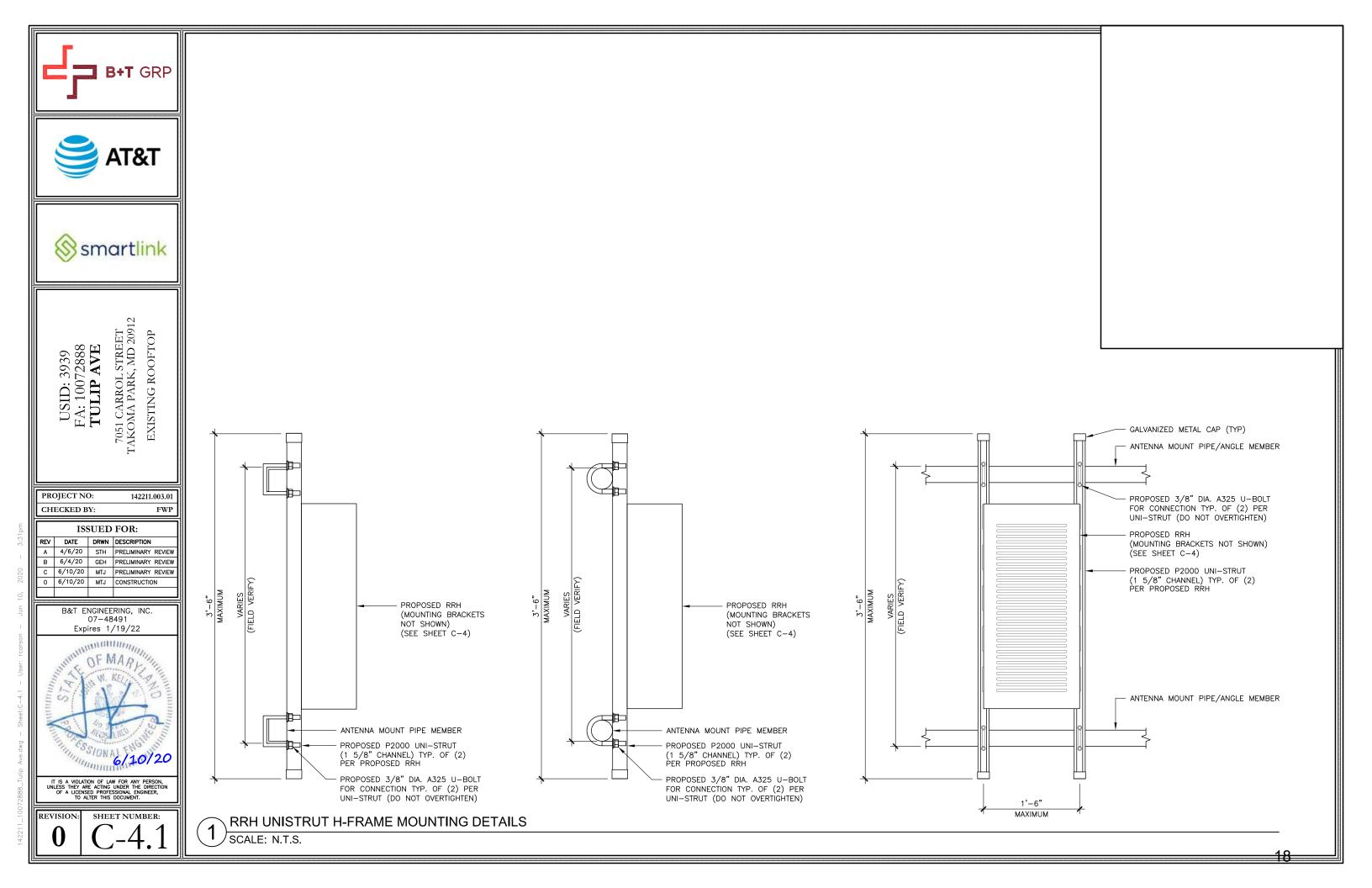


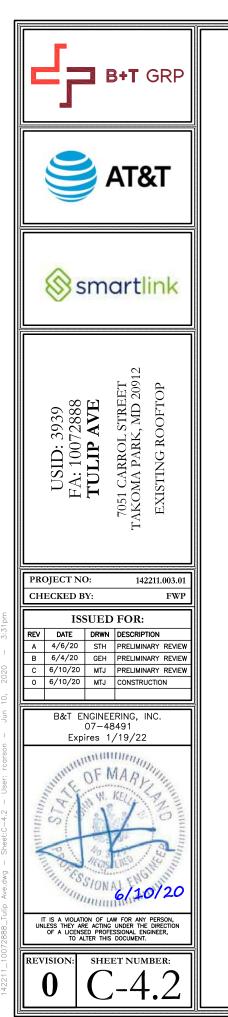




ECS.	
ROM RAYCAP	
ROM RAYCAP ADIUS, SPECIFICATIONS	
AD103,	
SPECIFICATIONS	
	1
	1
	1
	1
	1
CCORDANCE	1
	1
	1
DURE	1







	ANTENNA CABLE SCHEDULE										
ANT POS	enna Ition	AZIMUTH	ANTENNA	RAD CENTER	E TILT	M TILT	COAX SIZE	RRH	ТМА	LENGTH	COAX COLOR CODE
	#2	25'	(E) NNHH-65A-R4	129'-0"	12*/8*/5*/5*/12*	2*	FIBER	(1) B12/14 AHLBA (1) B25/66 AHFIB	_	60'	_
ج #1	#2	30*	(E) 742264	129'-0"	7*	0*	(E) 7/8" ANDREW (LDF5–50A)	-	(2) LGP 21401	60'	BROWN/GRAY BROWN/ORANGE
SECTOR	#4	25'	(N) NNHH-65A-R4	129'-0"	6°/12°/12°	2*	FIBER	(1) B5/29 AHBCB (1) RRH4x25-WCS-4R	-	60'	-
				ļ	1	II			I		
	#1	140 °	(E) NNHH-65A-R4	129'-0"	12°/8°/5°/5°/12°	2*	FIBER	(1) B12/14 AHLBA (1) B25/66 AHFIB	-	130'	_
R #2	#2	150 °	(E) 742264	129'-0"	6*	0*	(E) 7/8" ANDREW (LDF5–50A)	-	(2) LGP 21401	130'	ORANGE/GRAY ORANGE/ORANGE
SECTOR	#4	140	(N) NNHH-65A-R4	129'-0"	6°/12°/12°	2"	FIBER	(1) B5/29 AHBCB (1) RRH4x25-WCS-4R	-	130'	-
0,											
5	#1	250°	(E) NNHH-65A-R4	116'-0"	12°/8°/5°/5°/12°	0°	FIBER	(1) B12/14 AHLBA (1) B25/66 AHFIB	-	130'	-
R #3	#2	270 °	(E) 742264	116'-0"	2*	0•	(E) 7/8" ANDREW (LDF5–50A)	-	(2) LGP 21401	130'	GREEN/GRAY GREEN/ORANGE
SECTOR	#4	250	(N) NNHH-65A-R4	116'-0"	2°/12°/12°	o	FIBER	(1) B5/29 AHBCB (1) RRH4x25-WCS-4R	-	130'	_
57											

4. ATT Naming Convention for "RET NAME"

ATT-002-290-125 (Issue 9, 03/06/15) Antenna Remote Electrical Tilt (RET) Guidelines

Usage: [USID][CellId1][CellId2][CellId3][AntPos][FrequencyBand][Tech]

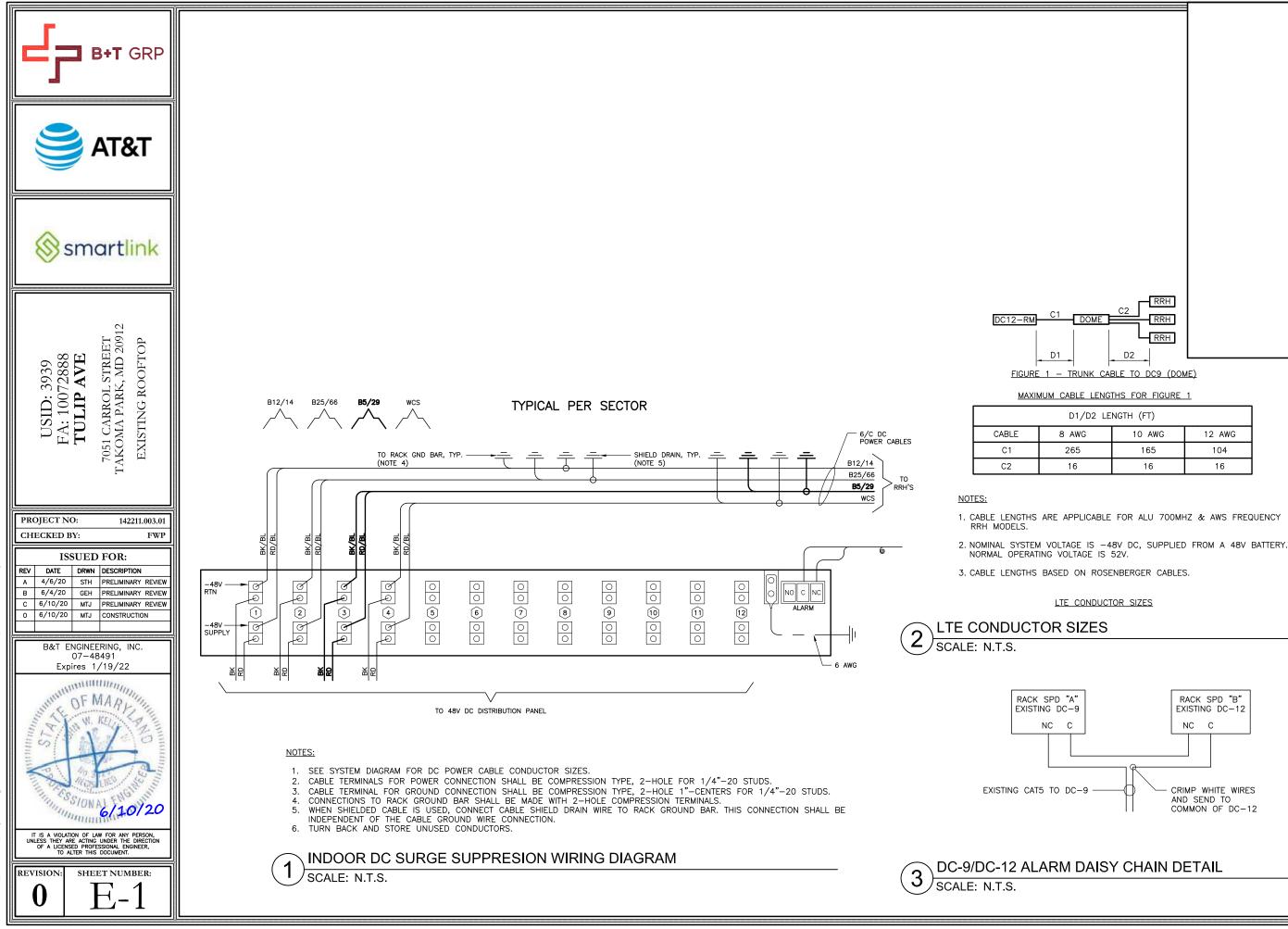
U	SID		CellId 1	CellId 2	CellId 3	AntPos	Freq	Tech	
1 2 3	4 5	6	7	8	9	10	11	12	
Field	Length	Descr	iption						
USID	6			lefined the site varacters in leng		ed with 0's (zero	s) (example:	003831)	
		Allowe	Allowed Value Description						
CellId1	1	6	A /	Npha					
Centar		3	B 8	Beta					
			C (Samma					
CellId2	1	13	D	Delta					
Centuz			E E	psilon					
CellId3	1		F 2	leta					
Cellias				No Transmitte	er connecte	d to this port			
		Alleve	d Value D	Nexcription					
			1 /	Antenna Position 1 on this face Antenna Position 2 on this face					
	1		2 /						
AntPos			3 /	Antenna Posit	sition 3 on this face sition 4 on this face				
			4 /	Antenna Posit					
				Antenna Posit					
		-		Antenna Posit					
		aministra a			and and to h				
				100 MHz (AN	N/S)				
		<u> </u>	_	2300 MHz (W			••• Us	ed to be W	
				700 MHz B &					
			8 8	850 MHz					
			9 1	1900 MHz (PCS)					
FreqBand	1		D 1	1900 MHz & 2100 MHz combined					
			F 1	1900 MHz & 2300 MHz combined					
			н 2	100 MHz & 2	300 MHz co	ombined			
			1 1	1900 MHz & 2100 MHz & 2300 MHz combined					
			К 7	00 MHz B &	C Band & 85	0 MHz combin	ed		
			Q 7	700 MHz D &	E Band Only	1			
			Y 7	700 MHz D &	E & 850 MH	z combined			

Field	Length	Description				
		Allowed Value	GSM	UMTS	LTE	Split Sector
		G	G5M	· · · · ·		
		J	GSM	UMTS		
		F			LTE	
		к	GSM		LTE	
		L			LTE	
		N				
		U		UMTS		
Tech	1	v		UMTS	LTE	
		Y	GSM	UMTS	LTE	
		н	GSM			Split
		M	G5M	UMTS		Split
		р	GSM		LTE	Split
		Q			LTE	Split
		R				Split
		s		UMTS		Split
		т		UMTS	LTE	Split

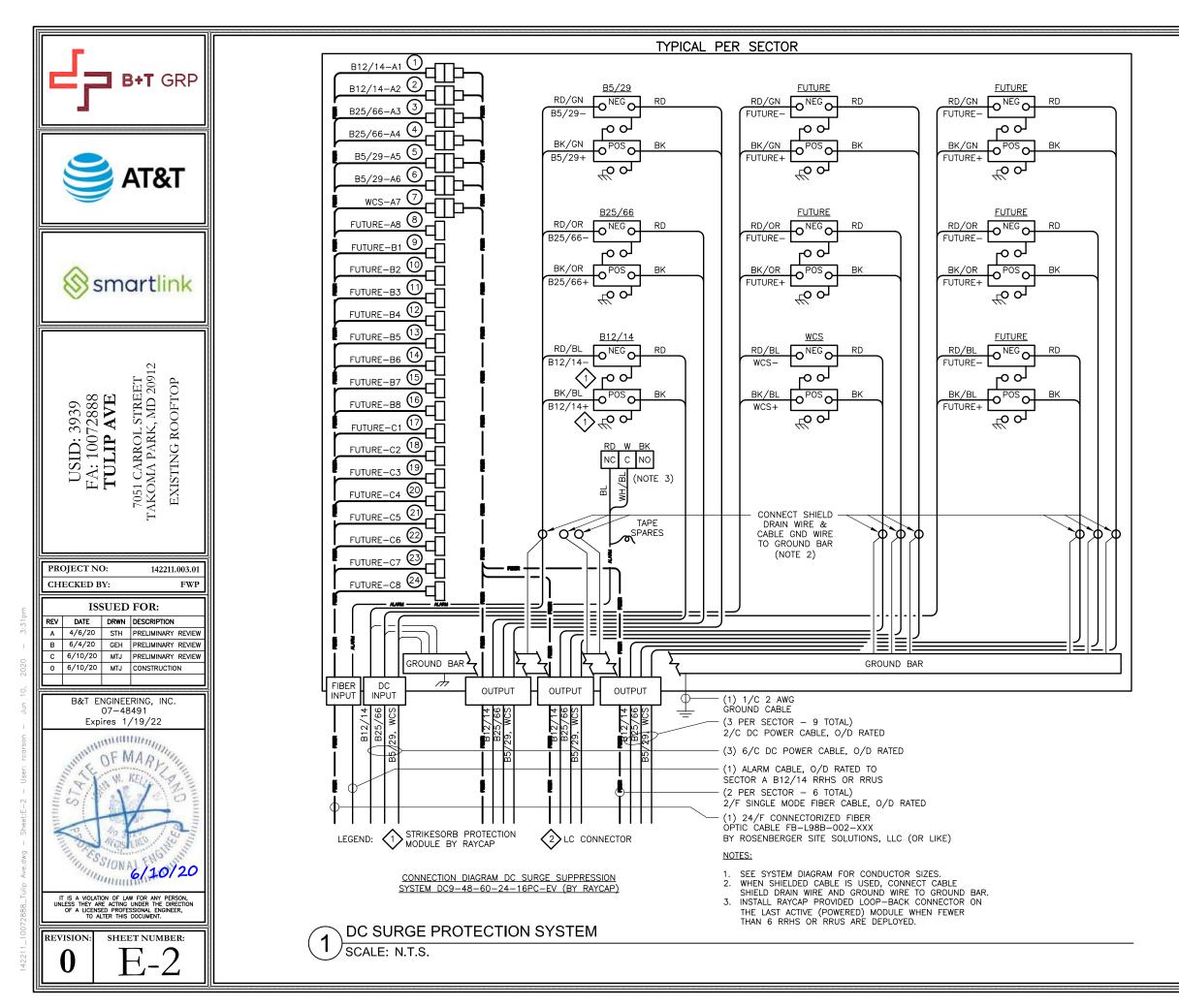
F = License Protection/FCC Compliance Example: Use Tech = "F" for certain cell(s) having issue with 2300 MHz (WCS) and <u>SiriusXM</u> interference

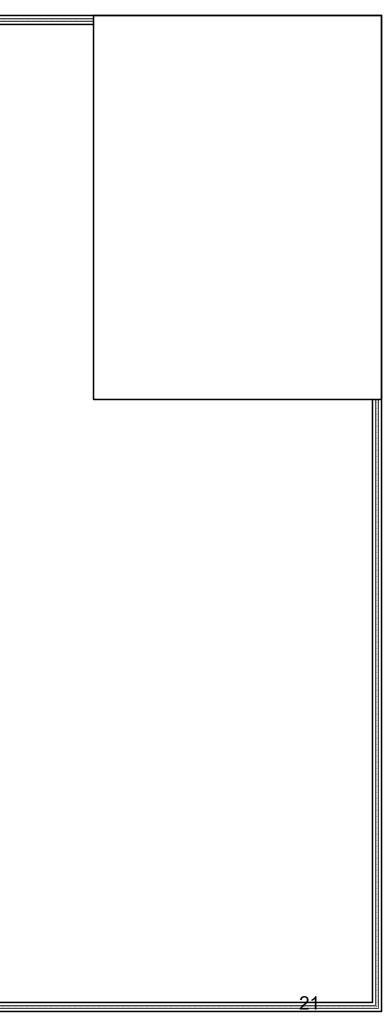
ANTENNA SCHEDULE NOTES:

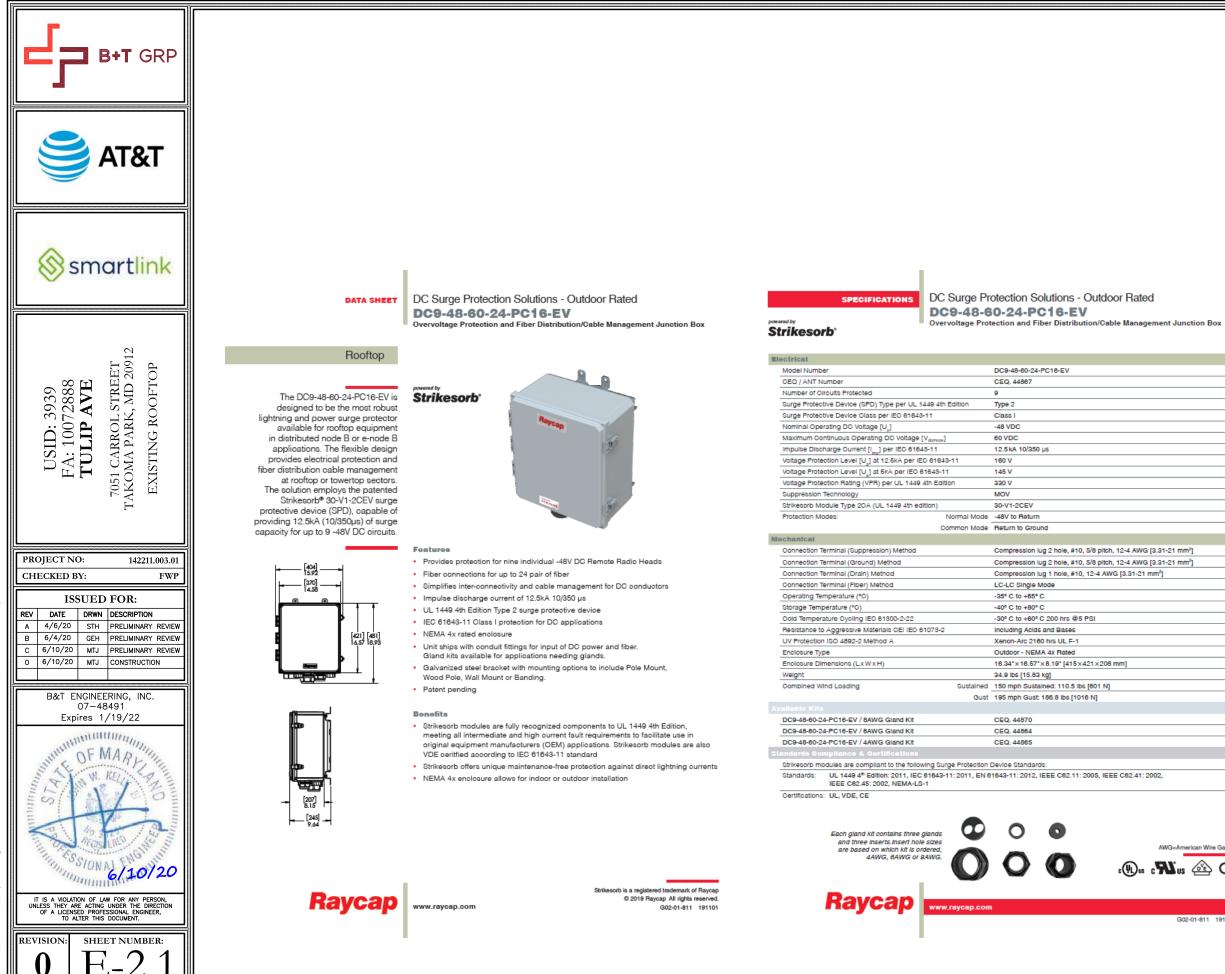
- 1. ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
- CONTRACTOR SHALL COORDINATE COLOR CODING IN THE FIELD WITH AN AT&T REPRESENTATIVE.
 CONTRACTOR SHALL INSTALL A NON-FERROUS
- 4. CONTRACTOR SHALL INSTALL A NON-FERROUS (PLASTIC OR NYLON) IDENTIFICATION TAG 1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS. INSTALL TAGS AT PORT CONNECTION NEAR THE END OF JUMPER AND ONE ON THE END NEAR THE RADIO EQUIPMENT. EACH TAG SHALL BE STAMPED WITH "AT&T" AND THE PORT IDENTIFICATION NUMBER.



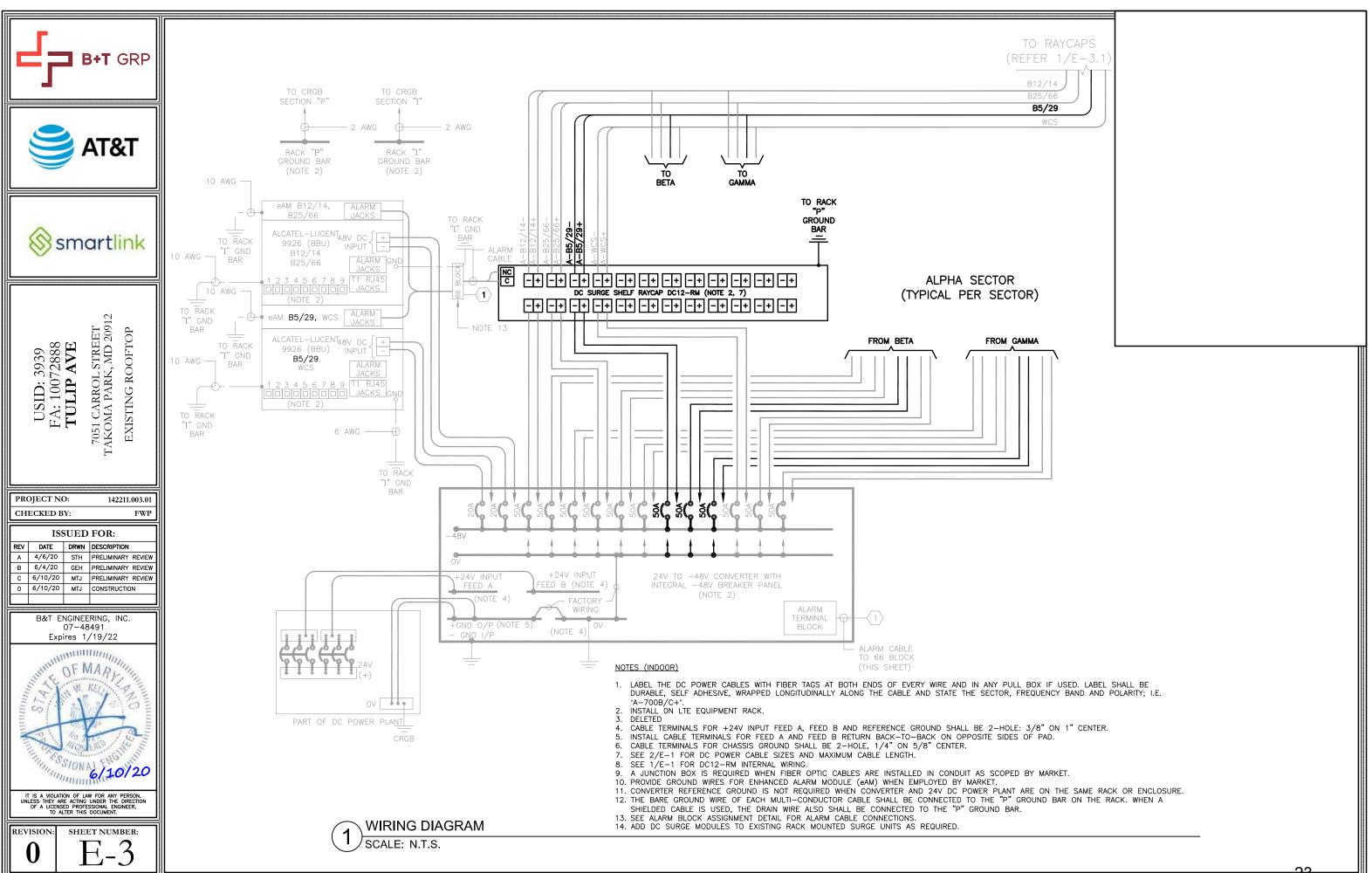
/D2 LENGTH (FT)								
3	10 AWG	12 AWG						
	165	104						
	16	16						



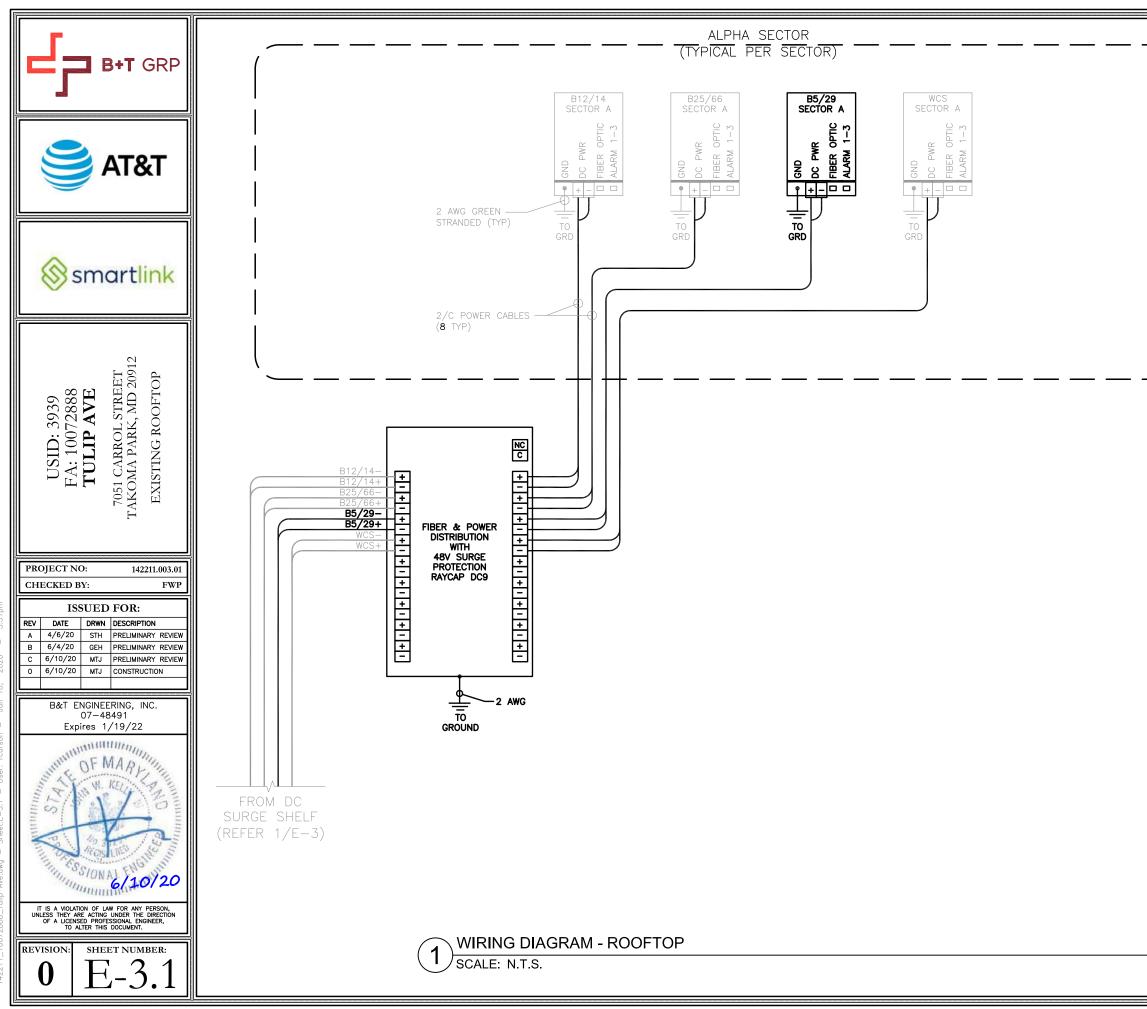




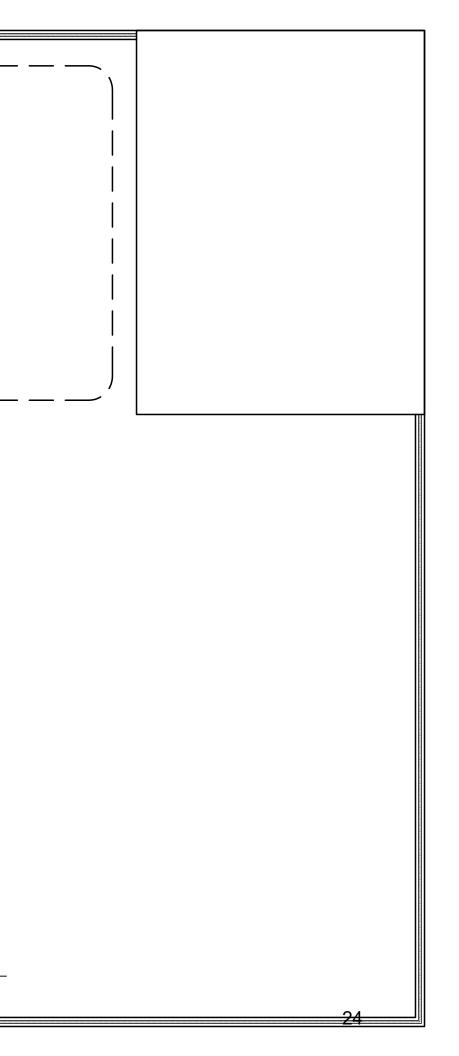
AWG=American Wire Gauge c∰us c₩us 🖄 C € G02-01-811 19110

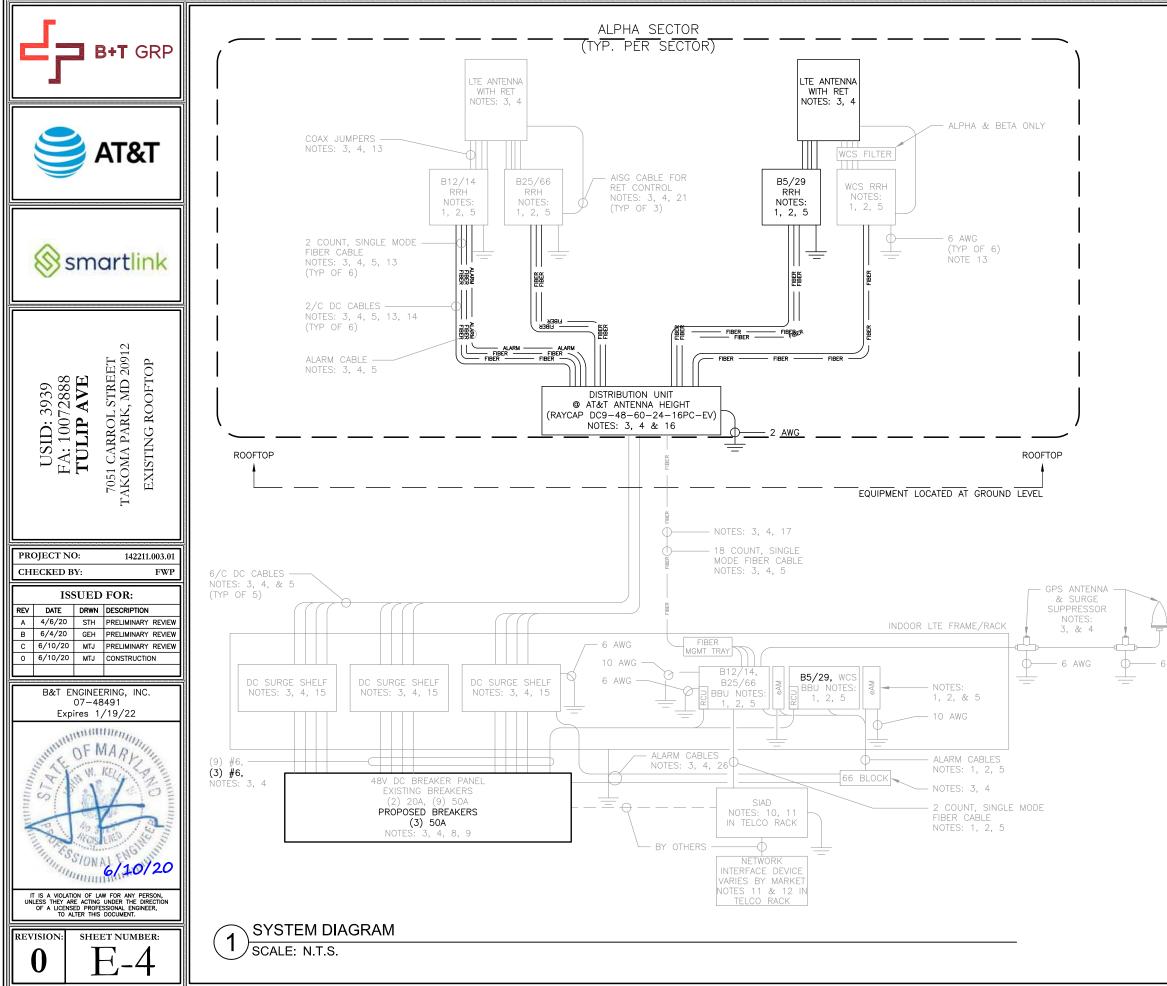


2888_Tulip Ave.dwg - Sheet:E-3 - User: rcarson - Jun



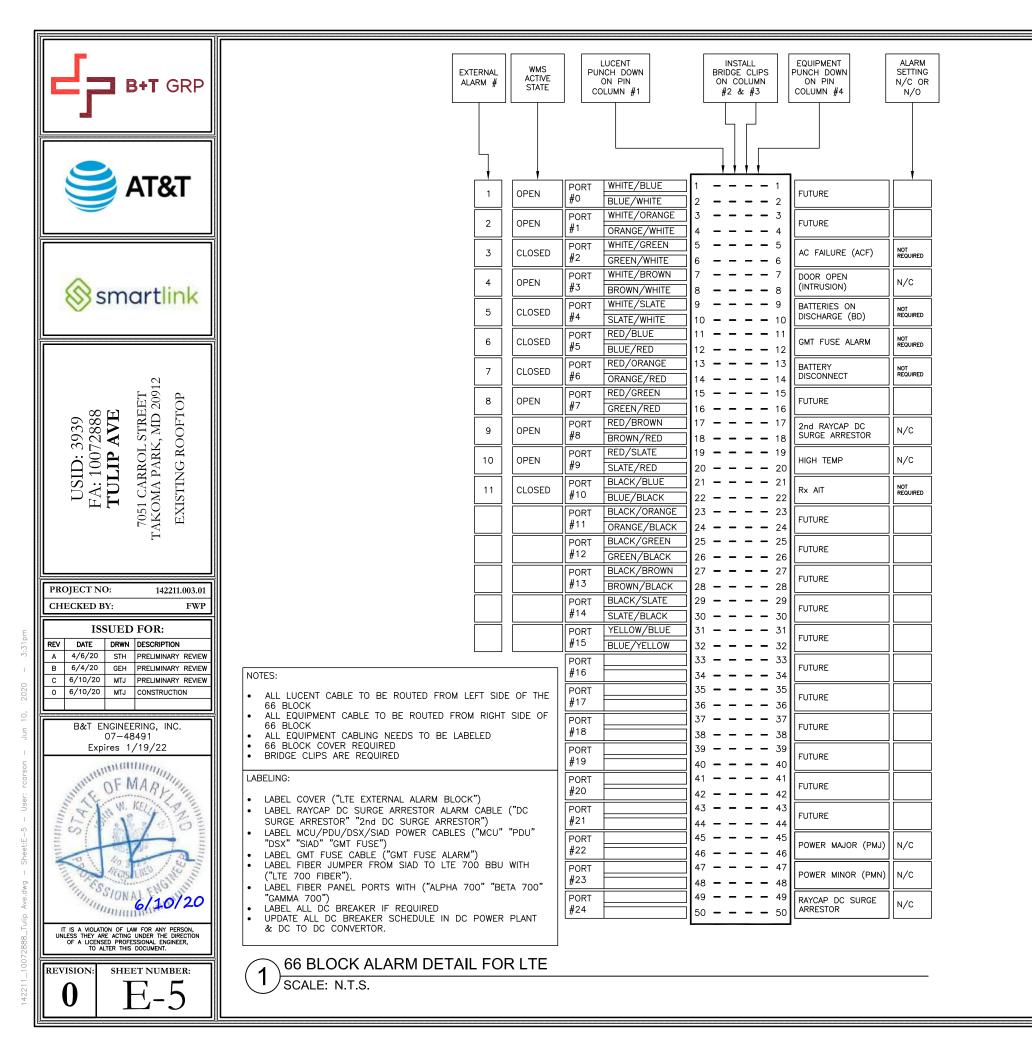
. 10072888 Tulin Ave.dwa – Sheet:E-3

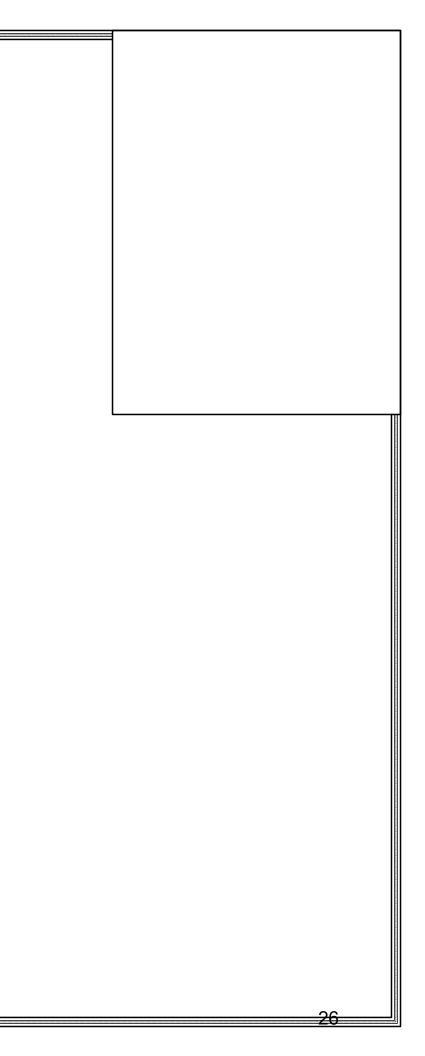


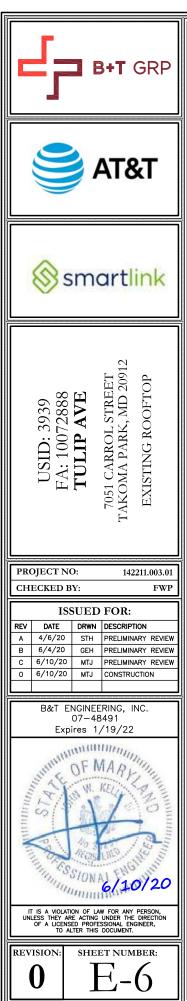


NOTES:

- 1. FURNISHED BY OEM/AT&T.
- INSTALLED BY OEM OR AS SCOPED BY MARKET. 2.
- 3 FURNISHED BY SMARTLINK.
- INSTALLED BY SMARTLINK.
- FINAL CONNECTION BY OEM OR AS SCOPED BY MARKET. 5. 6. OPEN END OF LFMC TO BE LEFT WEATHERPROOFED UNTIL TERMINATED.
- DELETED
- PART OF DC POWER PLANT. BREAKERS SPECIFIED 8. SEPARATELY.
- BREAKERS TO BE TAGGED AND LOCKED OUT. 9
- 10. SIAD IS FURNISHED AND INSTALLED BY OTHERS AND INCLUDES POWER CONNECTIONS AND FIBER TO THE UNIT OR AS SCOPED BY MARKET. WHEN IN SMARTLINK SCOPE, INSTALL 10 AWG CHASSIS GROUND, PROVIDE (2) 10A BREAKERS FROM A 24V DC POWER SOURCE OR (2) 5A BREAKERS FROM A 48V DC POWER SOURCE AND CONNECT USING MFR POWER CABLE WITH SPECIAL CONNECTOR.
- 11. EQUIPMENT LOCATED ON EXISTING TELCO RACK. 12. LEC TO FURNISH AND INSTALL NETWORK INTERFACE
- DEVICE.
- 13. LEAVE COILED AND PROTECTED UNTIL TERMINATED. 14. SEE 2/E-1 FOR DC POWER CABLE SIZES.
- 15. DC SURGE SHELF SHALL BE RAYCAP DC12-48-60-RM.
- SEE 1/E-1 FOR INTERNAL WIRING DIAGRAM.
- 16. SEE 1/E-2 FOR DC9 INTERNAL WIRING DIAGRAM.
- 17. SUPPORT FIBER & DC POWER CABLES WITH SNAP-IN HANGERS SPACED NO GREATER THAN 3 FEET APART ON TOWER. SUPPORT FIBER AND DC POWER CABLES INSIDE MONOPOLE WITH CABLE HOISTING GRIPS AT 250 FT MAXIMUM INTERVALS. DRESS CABLES TO PREVENT CONTACT WITH ENTRANCE AND EXIT OPENINGS.
- 18. MAX DC CABLE LENGTH IS 16 FEET.
- 19. DC POWER CABLES SHALL BE COPPER, CLASS B STRANDING, TYPE RHH/RHW UL LISTED FOR 90°C DRY/75°C WET INSTALLATIONS.
- 20. GROUNDING WIRES SHALL BE COPPER, THHN/THWN UL LISTED FOR 90°C DRY/75°C WET INSTALLATION. MINIMUM SIZE IS 6 AWG UNLESS NOTED OTHERWISE.
- 21. RET CONTROL FROM THE RRH IS AN OPTIONAL METHOD OF CONNECTION. REFER TO RF DATA SHEET FOR APPLICABILITY.
- 22. FIBER OPTIC TRUNKS SHALL BE INSTALLED IN FLEXIBLE CONDUIT AS SCOPED BY MARKET.
- 23. MAXIMUM 4/0 AWG CABLE LENGTH FROM 24V DC POWER PLANT TO CONVERTER SHALL NOT EXCEED 44 FT.
- 24. PROVIDE GROUND WIRES FOR ENHANCED ALARM MODULE (eAM)
- WHEN EMPLOYED BY MARKET.
- 25. SEE AT&T STANDARDS FOR GPS ANTENNA AND SURGE SUPPRESSOR COAXIAL CABLE CONNECTION.
- 26. SEE AT&T STANDARDS FOR ALARM CABLE REQUIREMENTS.

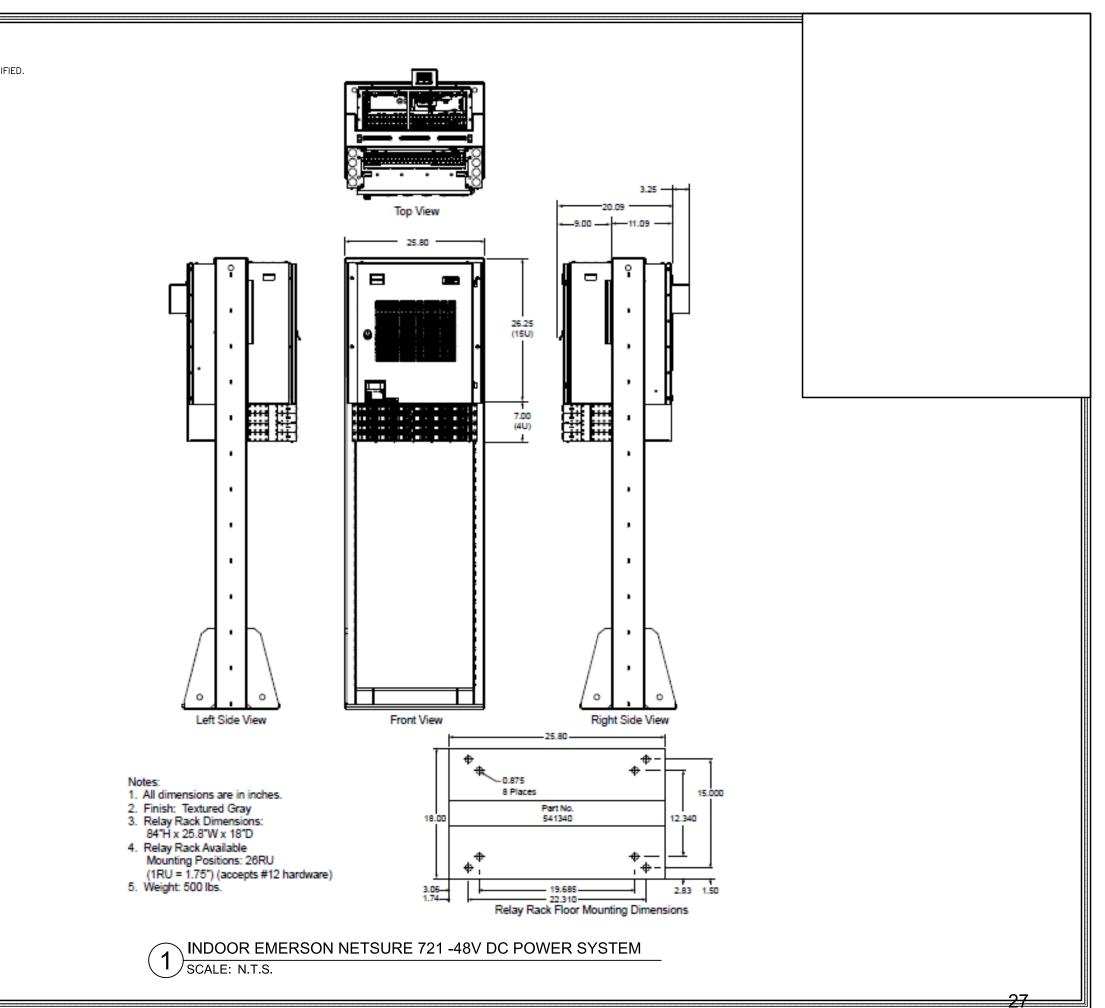


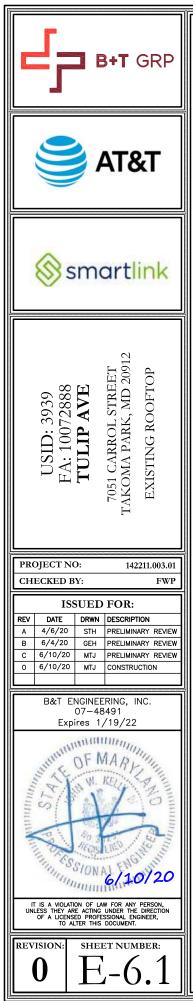




OVERALL DIMENSIONS:

ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED. WEIGHT OF CABINET : 500 LBS





48VDC	
41VDC to 58.5VDC 39.5A	12 12 10
	output power
	Xof marc
	×
-	
63A	
See diagram	
Alarm and status reported via CAN bus to system controller	ŝ
	Output Voltage (V)
Yellow LED: Alarm	aut/vo
Red LED: Failure	di
Flashing Red LED: Fan Failure	-
40 to +90% 40 to +176%	
Telcordia GR-1089-CORE class A	
IEC 60950, EN 60950, UL 60950	
42-945-2525 mm/265-222-004 index	
1.13Kg/2.49IDs	
See separate ACU/ACU+ and SCU/SCU+ datasheets	
	41VDC to 58.5VDC 39.5A 2 4 to 28 VDC 1500W@vout>24vDC See diagram 63A 63 to 63A >95% <2 mV; output noise<38dBmc

eSure™ Converter C48/24-1500

eSure[™] Rectifier R48-2000e3

Technical Specification	715	Diagrams
AC Input	200 - 250	Output Powe
Input Voltage, Nominal	200 to 250 VAC	at Ta
Input Voltage, Permitted Variation	85 to 300 VAC 45 to 65 Hz	120 IIS
Line Frequency	12A	120 0 100
Max Input Current Power Factor		
THD (Total Harmonic Distortion)	>0.99 for 50%-100% load \$5% for 50%-100% load at 208v ac, 220vac, 230vac, 240vac	
THD (Total Harmonic Distortion)	\$5% TOF 50%-100% load at 208V ac, 220V ac, 230V ac, 240V ac	20 50 100
DC Output		0 50 100 ing
Output Voltage, Adjustment Range	-42 to -58 V DC	
Output Power	2000W Maximum	
Output Power, Derated for Input Voltage	See diagram	Output Pow at Ui
Output Current	42A@-48VDC	k 120
Output Current Limit Set Point	0 to 42A	
Peak Efficiency	96.2%	00 00 00 00 00 00 00 00 00 00 00 00 00
Temperature Derating	Full output power up to +65°C at input voltage range >200 - 300VAC (>176 - 200VAC, +55°C)	2 40 20
		-40 -20 0 3
Control and Monitoring Rectifier Alarm and Signaling	Alarm and status connected via CAN bus to pustom controller	1
Rectifier Alarm and Signaling Visual Indications	Alarm and status reported via CAN bus to system controller	
visual indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure	Output voltag max. outpu
Environmental		ω
Temperature Range, Operating	-40 to 80°C,-40 to +176°F (See diagram for de-rating)	S 50
Temperature Range, Storage	-40 to +70°C, -40 to +158°F	∯ 40 ∮(30
Relative Humidity	0 to 95%	
Altitude	2000 m, 6560 ft at full power	70 10 10 10 10 10 10 10 10 10 10 10 10 10
EMC	ETSI EN300 386: 2005, Class B. Other than telecorn centers. FCC CFR 47 Part 15, Class B conducted and radiated EN55022, Class B conducted and radiated CSPR22, Class B conducted and radiated	0 5 10 15 C
	Telepterie CR 1000 CORFire of C	
Safety	Telcordia GR-1089-CORE issue 6	
Safety	Telcordia GR-1089-CORE issue 6 UL 60950-1;EN 60950-1;IEC 60950	
Safety Mechanics		
Safety Mechanics Dimensions (Hx Wx D)		
Mechanics	UL 60950-1;EN 60950-1;IEC 60950	
Mechanics Dimensions (H x W x D) Weight	UL 60950-1;EN 60950-1;IEC 60950 41x84.5x252.5mm/1.61x3.33x9.94 inches	
Mechanics Dimensions (Hx Wx D) Weight Other Parts	UL 60950-1;EN 60950-1;IEC 60950 41x84.5x252.5mm/1.61x3.33x9.94 inches 1.13kg/2.49lbs	
Mechanics Dimensions (Hx Wx D) Weight Other Parts	UL 60950-1;EN 60950-1;IEC 60950 41x84.5x252.5mm/1.61x3.33x9.94 inches	
Mechanics Dimensions (Hx Wx D) Weight Other Parts Controller Units	UL 60950-1;EN 60950-1;IEC 60950 41x84.5x252.5mm/1.61x3.33x9.94 inches 1.13kg/2.49lbs See separate controller datasheet	
Mechanics Dimensions (H x W x D) Weight	UL 60950-1;EN 60950-1;IEC 60950 41x84.5x252.5mm/1.61x3.33x9.94 inches 1.13kg/2.49lbs See separate controller datasheet	

INDOOR EMERSON NETSURE 721 SPEC SHEETS 1

4

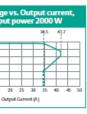
EMERSON

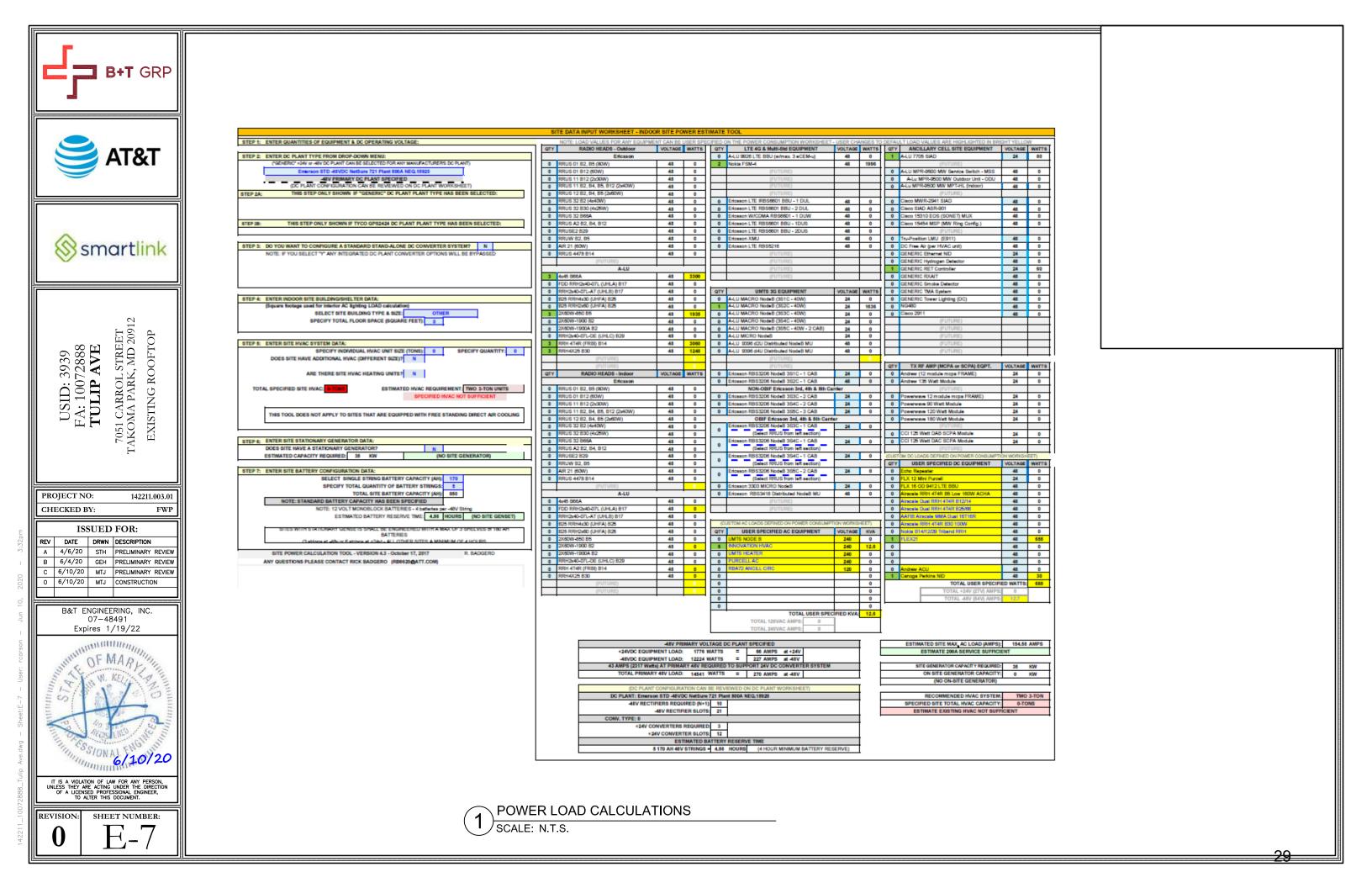
SCALE: N.T.S.

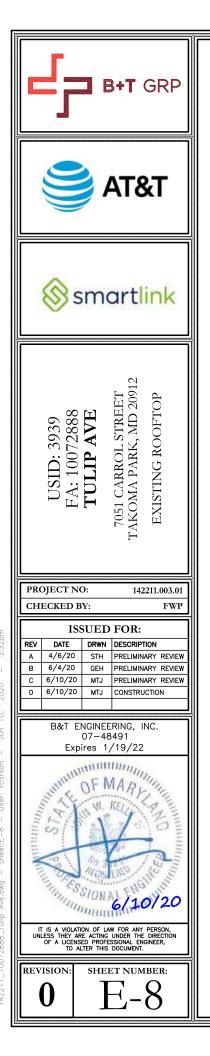


s. Input Voltage I < 55 °C								
176			300					
i								
2	30 3	50 3	00	35				
tage (VAC)								

s. Temperature 200VAC							
	6570						
40	60	50	100	12			
20470 (YC)						



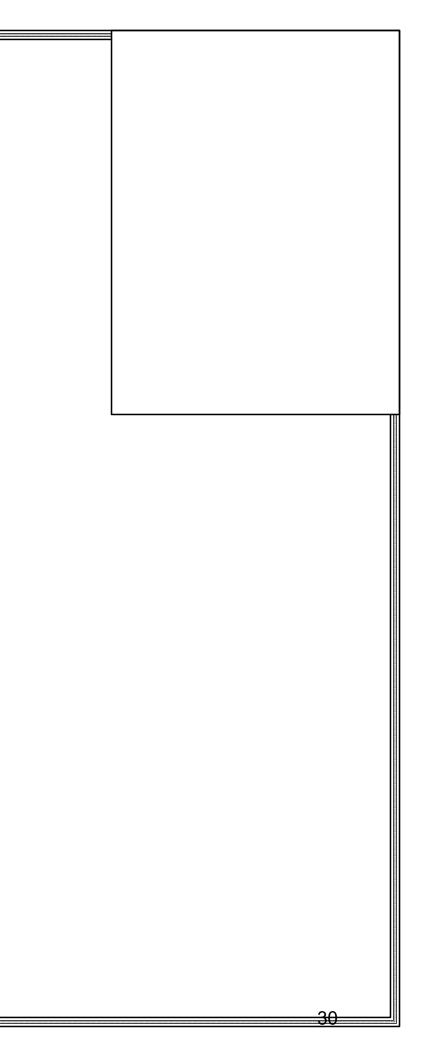


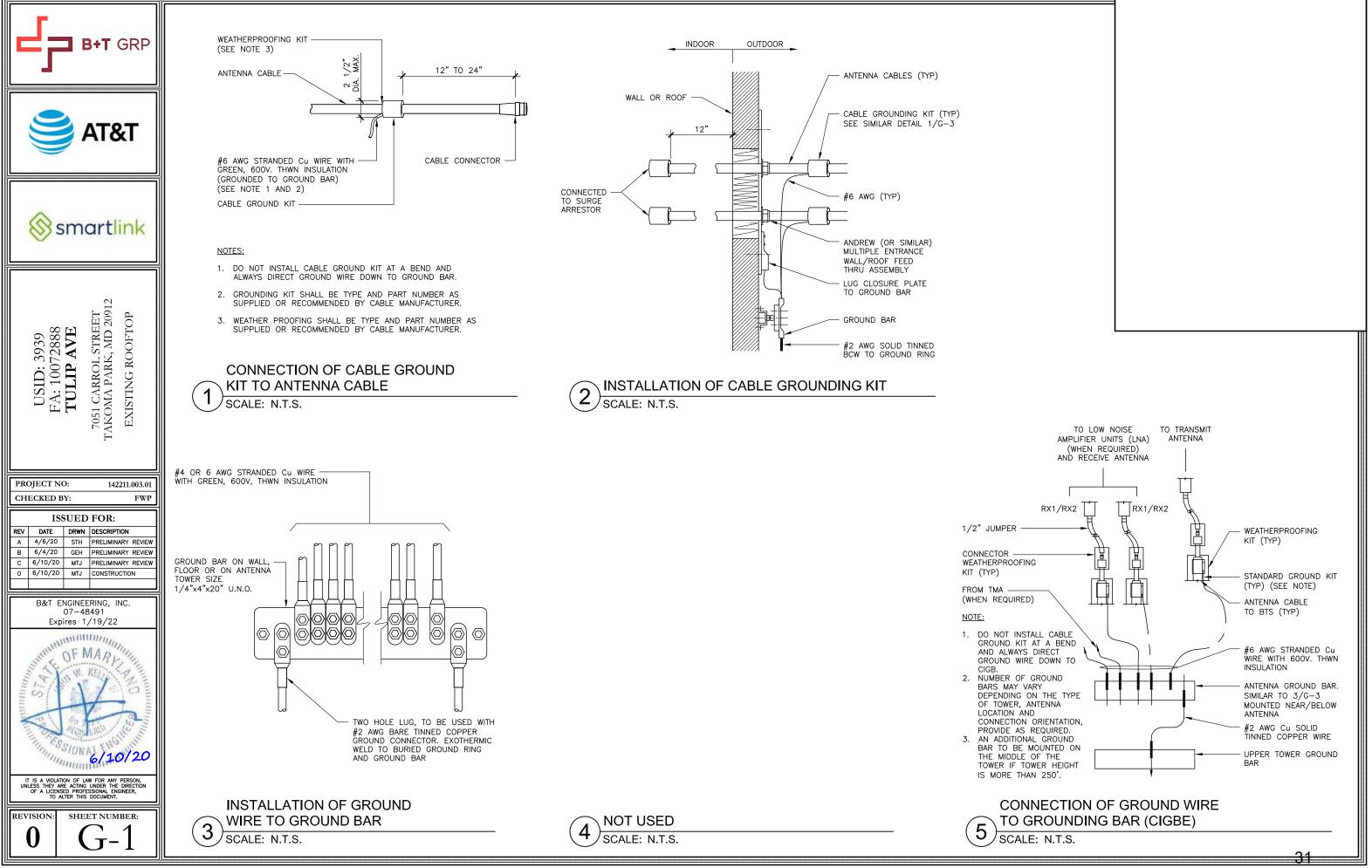


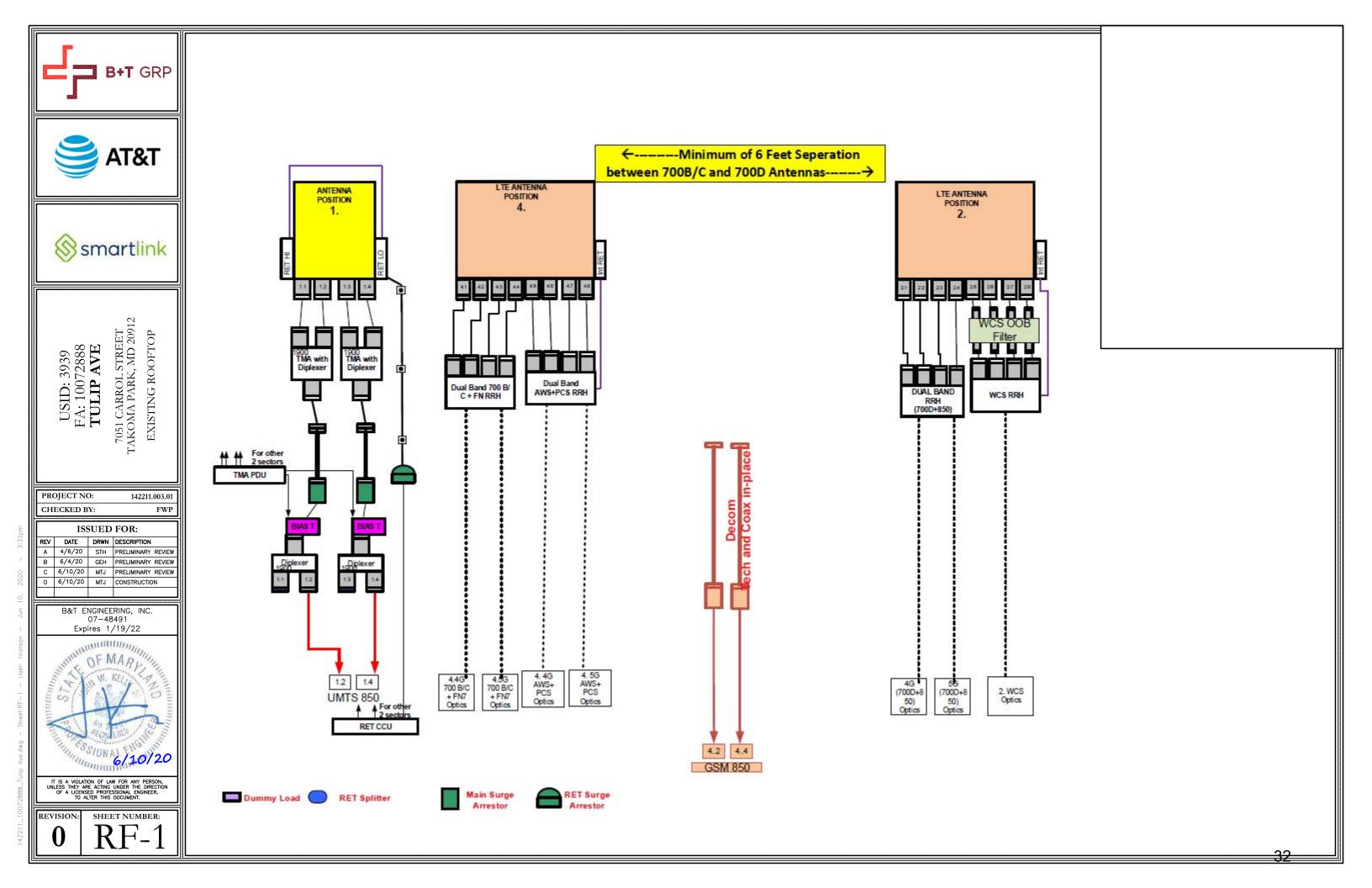
	PANEL SCHEDULE													
	10072888						Tulip Ave						Intersect panel	
	120/208V, 3 PHASE							200	200A MAIN BKR (COMMERCIAL PWR) 65 KAIC S			WR) 65 KAIC SERIES RATED		
	200A BUS, 10 KAIC												CE ENTRANCE EQUIPMENT	
	MA	IN BREAK	KER	RATIN	NG (A) :		200		SYSTE	M VO	LTA	GE (V) :	208	
Туре	DESCRIPTION	VA	c/nc	BKR	POSN	L1	L3	L2	POSN	BKR	c/nc	VA	DESCRIPTION	Туре
single	LIGHTS(OFF)	0	nc	20	1	2150			2	40	С	2150	RECT 1/2	dual
single	GFCI(OFF)	0	nc	20	3			2150	4		С	2150		
dual	AIR COND 1	1095	nc	20	5		3245		6	40	С	2150	RECT 3/4	dual
		1095	nc		7	3245			8		С	2150		
dual	AIR COND 2(OFF)	0	nc	20	9			2150	10	40	С	2150	RECT 5/6	dual
		0	nc		11		2150		12		С	2150		
dual	AIR COND 3	1095	nc	20	13	3245			14	40	С	2150	RECT 7/8	dual
		1095	nc		15			3245	16		С	2150		
dual	AIR COND 4	1095	nc	20	17		3245		18	40	С	2150	RECT 9/10	dual
		1095	nc		19	3245			20		С	2150		
dual	AIR COND 5(OFF)	0	nc	20	21			0	22	40	С	0	RECT 11/12	dual
		0	nc		23		0		24		С	0		
dual	AIR COND 6	1095	nc	20	25	2190			26	20	С	1095	AC 7	dual
		1095	nc		27			2190	28		С	1095		
single	FIBER TOWER	0	nc	15	29		0		30	20	nc	0	SPARE	single
	NOT AVAILABLE				31	0			32				NOT AVAILABLE	0
	NOT AVAILABLE				33			0	34				NOT AVAILABLE	
	NOT AVAILABLE				35		0		36				NOT AVAILABLE	
	NOT AVAILABLE				37	0			38				NOT AVAILABLE	
	NOT AVAILABLE				39			0	40				NOT AVAILABLE	
	NOT AVAILABLE				41		0		42				NOT AVAILABLE	
	PHASE TOTALS (VA):		14075	8640	9735									
	CURRENT PER PHASE (A):			117	72	81	Ampere	es/pha	se c	annot ex	ceed main breaker rating			
	PANEL TOTAL (VA):				32450						, nc = non-continuous			
	PANEL CAPACITY (kVA): PANEL LOADING (TOTAL) (kVA):			72.1		CC	ONNEC				32.5			
				32.5						· /·				
	SPARE CAPACITY (kVA):					39.6								
									<u>.</u>	<u>.</u>	·			

AC PANEL SCHEDULE SCALE: N.T.S.

2 DC PANEL SCHEDULE SCALE: N.T.S.







B+T Group SK - 2 NKM 10072888 - Tulip Ave May 12, 2020 at 2:46 PM	Ervelope Only Solution		
33		10072888 - Tulip Ave	May 12, 2020 at 2:46 PM 142211_002_01_Tulip Ave_MD (Al